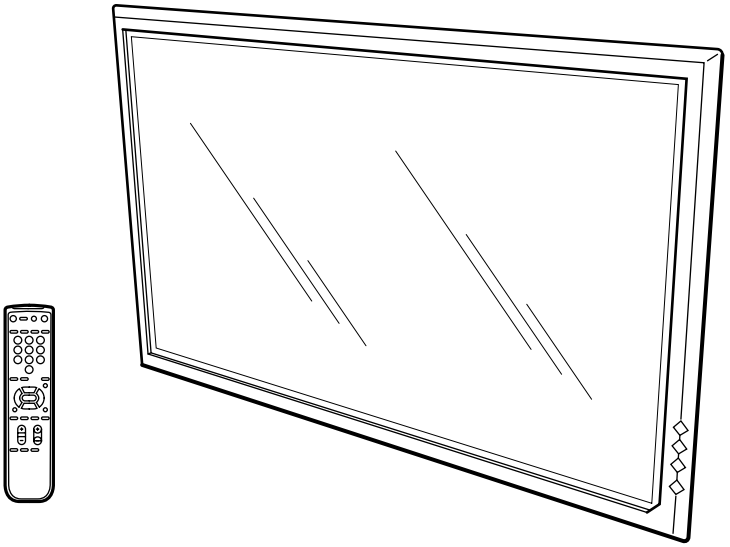
SERVICE MANUAL

MODEL	DEST.	CHASSIS NO.
PFM-32C1	WORLD	
PFM-32C1E	WORLD	

MODEL	DEST.	CHASSIS NO.
RM-971	WORLD	



FLAT PANEL DISPLAY

SONY

⚠警告

このマニュアルは，サービス専用です。
お客様が，このマニュアルに記載された設置や保守，点検，修理などを行うと感電や火災，人身事故につながることがあります。
危険をさけるため，サービストレーニングを受けた技術者のみご使用ください。

⚠ WARNING

This manual is intended for qualified service personnel only.
To reduce the risk of electric shock, fire or injury, do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified service personnel.

⚠ WARNUNG

Die Anleitung ist nur für qualifiziertes Fachpersonal bestimmt.
Alle Wartungsarbeiten dürfen nur von qualifiziertem Fachpersonal ausgeführt werden. Um die Gefahr eines elektrischen Schlages, Feuergefahr und Verletzungen zu vermeiden, sind bei Wartungsarbeiten strikt die Angaben in der Anleitung zu befolgen. Andere als die angegeben Wartungsarbeiten dürfen nur von Personen ausgeführt werden, die eine spezielle Befähigung dazu besitzen.

⚠ AVERTISSEMENT

Ce manual est destiné uniquement aux personnes compétentes en charge de l’entretien. Afin de réduire les risques de décharge électrique, d’incendie ou de blessure n’effectuer que les réparations indiquées dans le mode d’emploi à moins d’être qualifié pour en effectuer d’autres. Pour toute réparation faire appel à une personne compétente uniquement.

WARNING!!

AN INSULATED TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY A ⚠ MARK ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION!!

AFIN D’ÉVITER TOUT RISQUE D’ÉLECTROCUTION PROVENANT D’UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D’ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ Á L’ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS Á LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÉS PAR UNE MAPQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D’UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

CAUTION

Danger of explosion if battery is incorrectly replaced.

Replace only with the same or equivalent type recommended by the manufacturer.
Dispose of used batteries according to the manufacturer's instructions.

ADVARSEL

Lithiumbatteri - Eksplosjonsfare.
Ved utskifting benyttes kun batteri som anbefalt av apparatfabrikanten.
Brukt batteri returneres apparatleverandøren.

Vorsicht!

Explosionsgefahr bei unsachgemäßem Austausch der Batterie.

Ersatz nur durch denselben oder einen vom Hersteller empfohlenen ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

VARNING

Explosionsfara vid felaktigt batteribyte.
Använd samma batterityp eller en likvärdig typ som rekommenderas av apparattillverkaren.
Kassera använt batteri enligt gällande föreskrifter.

ATTENTION

Il y a danger d'explosion s'il y a remplacement incorrect de la batterie.

Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur.
Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

VAROITUS

Paristo voi räjähtää jos se on virheellisesti asennettu.
Vaihda paristo ainoastaan laitevalmistajan suosittelemaan tyyppiin.
Hävitä käytetty paristo valmistajan ohjeiden mukaisesti.

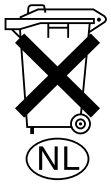
ADVARSEL!

Lithiumbatteri-Eksplosionsfare ved fejlagtig håndtering.
Udskiftning må kun ske med batteri af samme fabrikat og type.
Levér det brugte batteri tilbage til leverandøren.

For the customers in the Netherlands
Voor de klanten in Nederland

Hoe u de batterijen moet verwijderen, leest u in de tekst van deze handleiding.

Gooi de batterij niet weg maar lever deze in als klein chemisch afval (KCA).



Für Kunden in Deutschland

Entsorgungshinweis: Bitte werfen Sie nur entladene Batterien in die Sammelboxen beim Handel oder den Kommunen. Entladen sind Batterien in der Regel dann, wenn das Gerät abschaltet und signalisiert “Batterie leer” oder nach längerer Gebrauchsdauer der Batterien “nicht mehr einwandfrei funktioniert”. Um sicherzugehen, kleben Sie die Batteriepole z.B. mit einem Klebestreifen ab oder geben Sie die Batterien einzeln in einen Plastikbeutel.

For the customers in the U.S.A. and Canada

RECYCLING LITHIUM-ION BATTERIES

Lithium-Ion batteries are recyclable.
You can help preserve our environment by returning your used rechargeable batteries to the collection and recycling location nearest you.

For more information regarding recycling of rechargeable batteries, call toll free 1-800-822-8837, or visit http://www.rbrc.org/

Caution: Do not handle damaged or leaking Lithium-Ion batteries.

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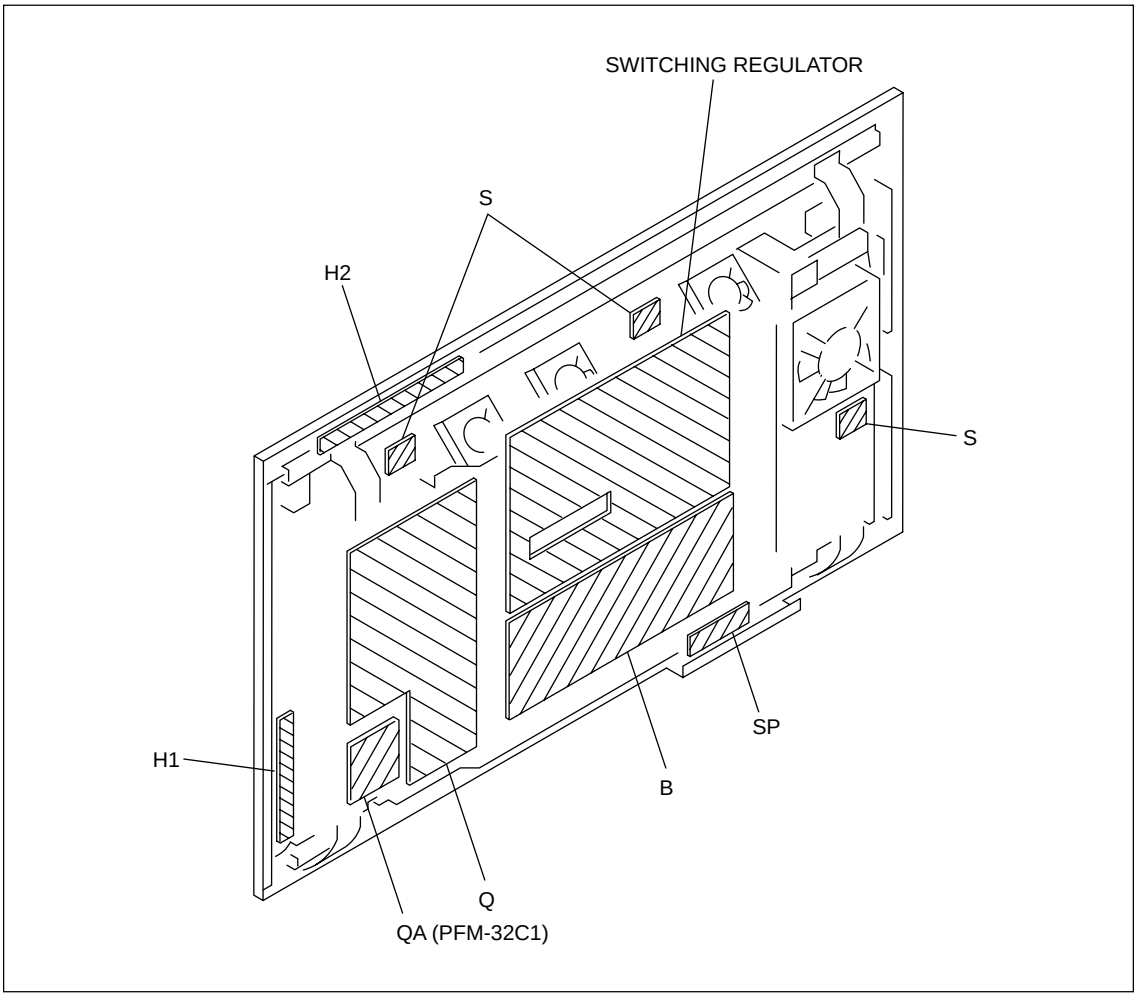
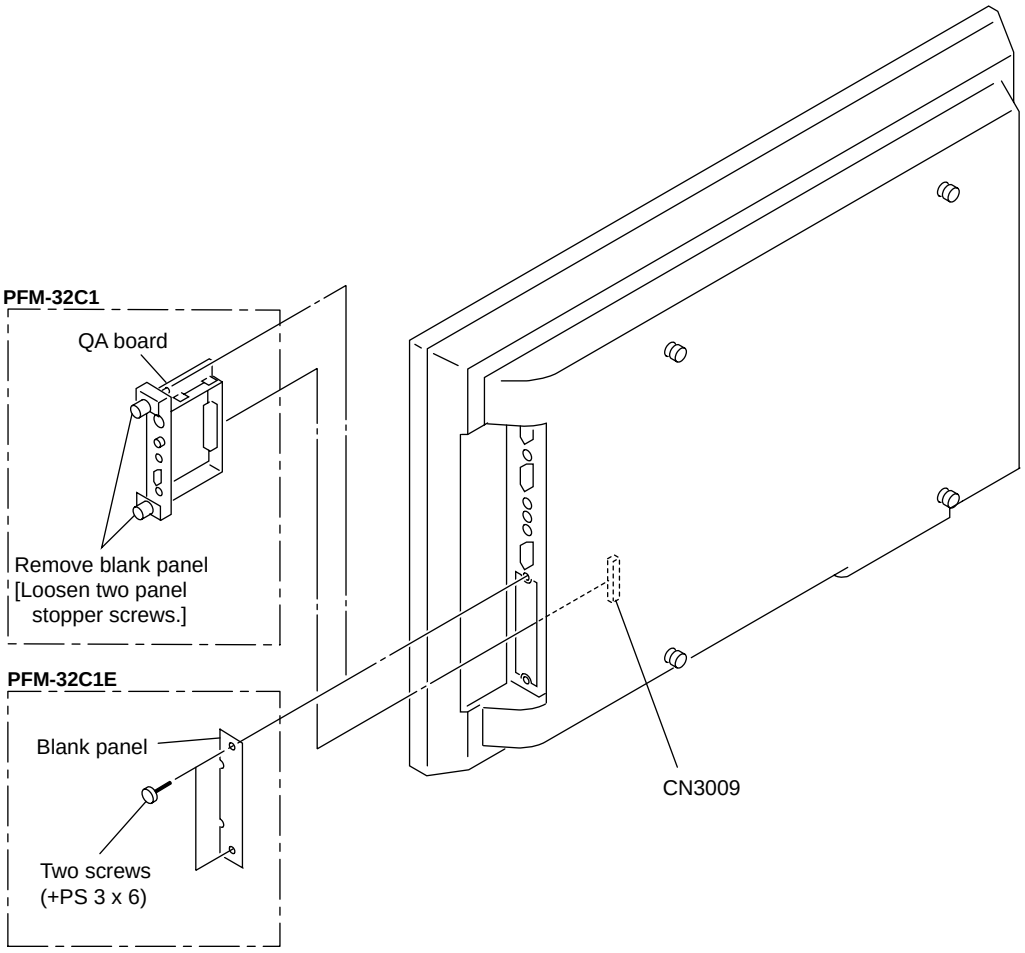
Section 1
Service Information

1-1. Board Layout

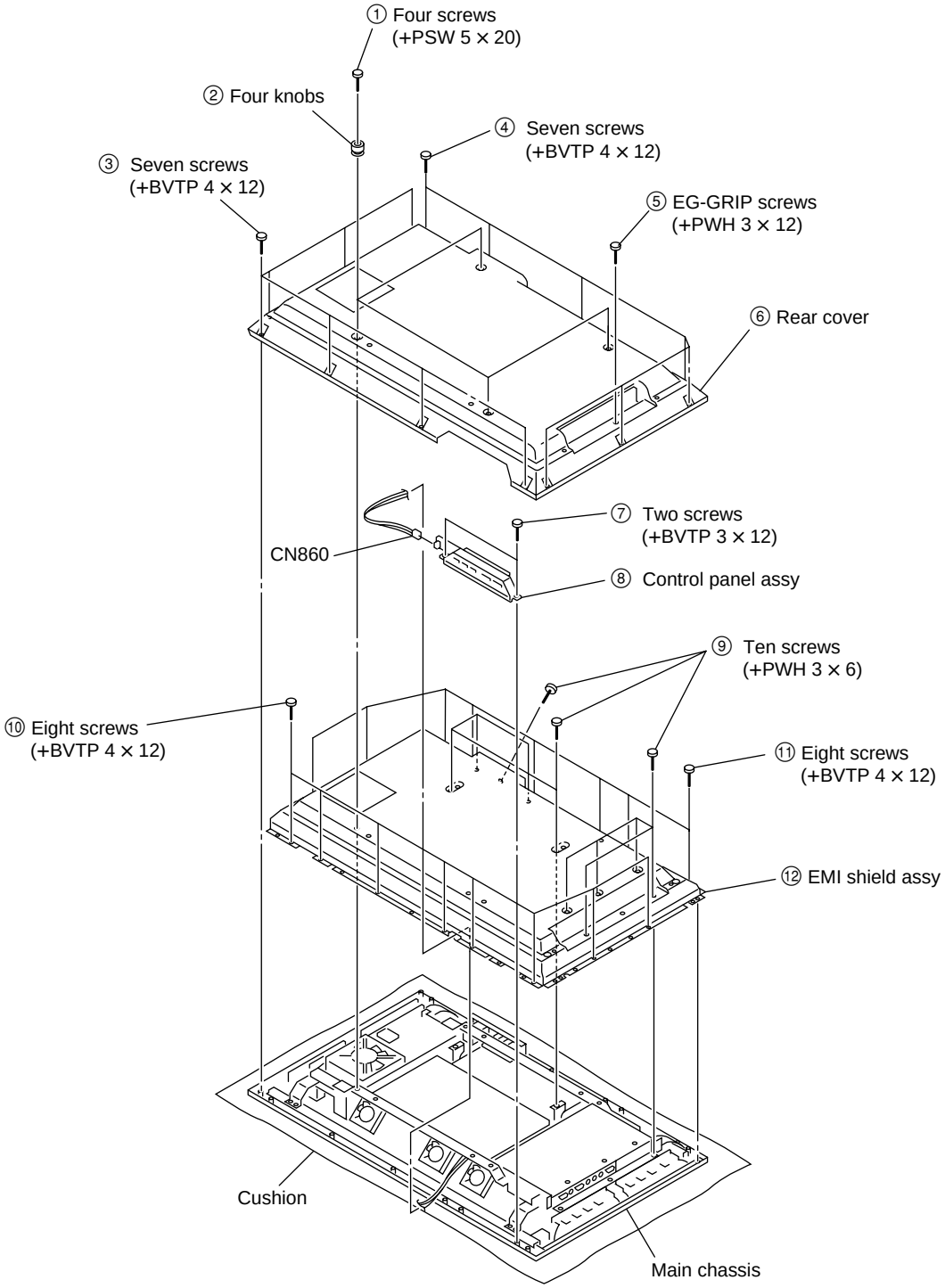


1-2. Disassembly

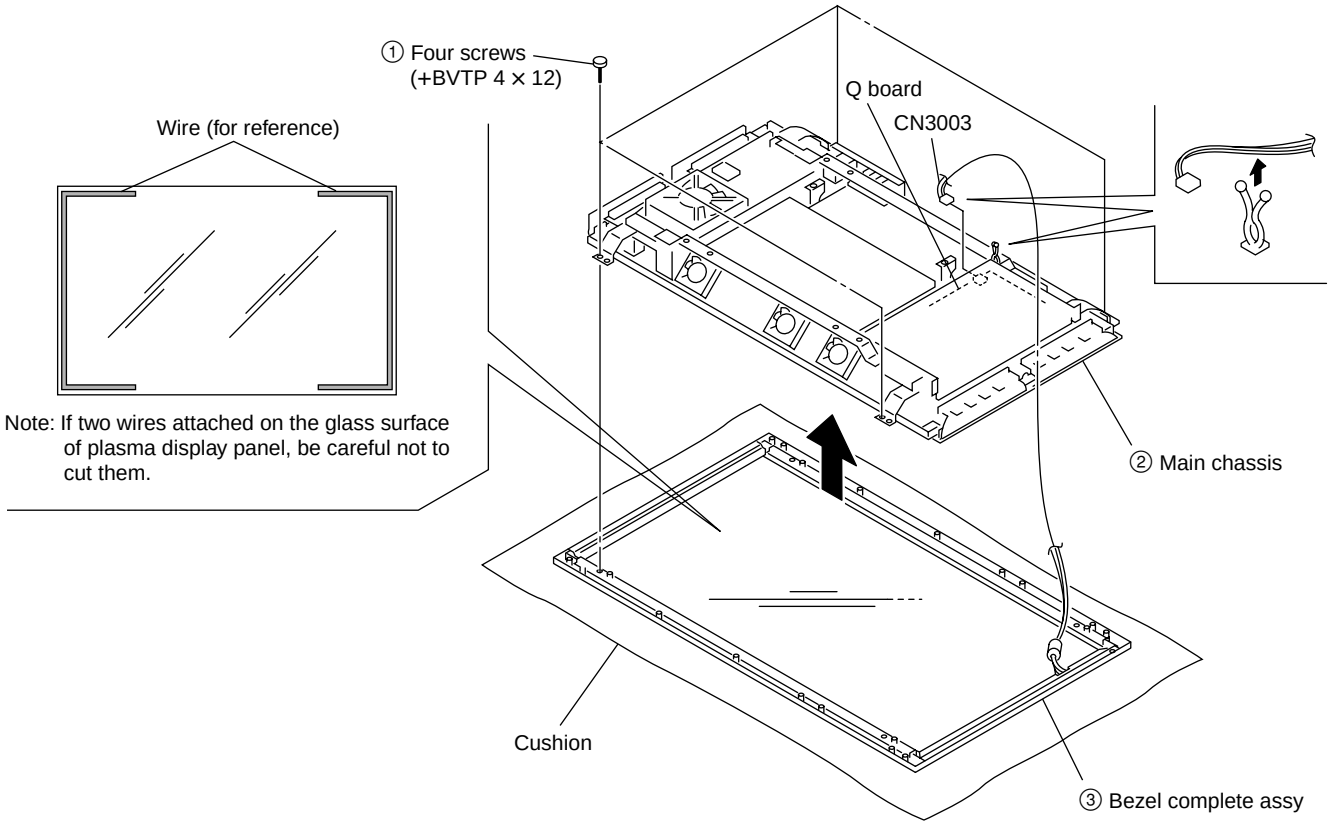
1-2-1. QA Board Removal



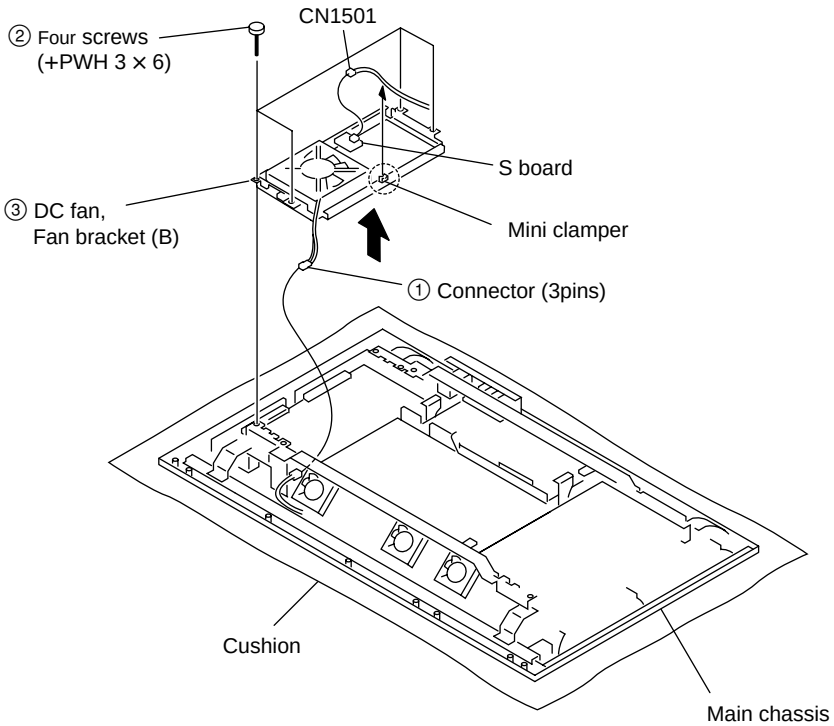
1-2-2. Rear Cover Removal



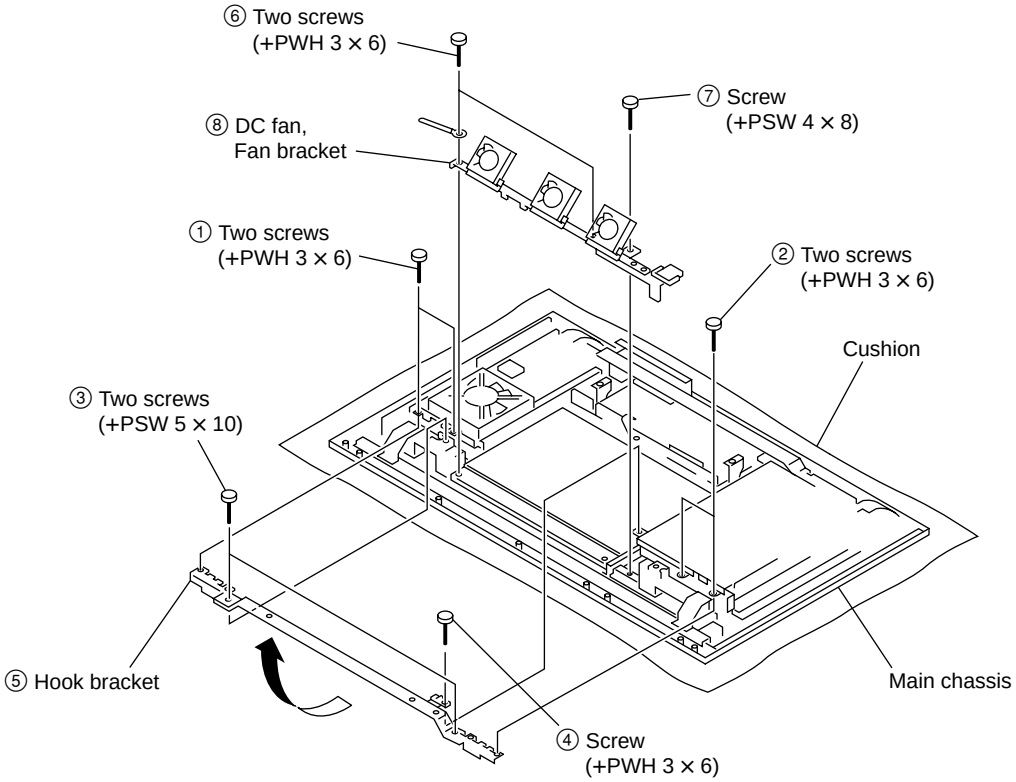
1-2-3. Bezel Assy Removal


① Four screws
(+BVTP 4 × 12)
Wire (for reference)
Note: If two wires attached on the glass surface of plasma display panel, be careful not to cut them.
Q board
CN3003
② Main chassis
Cushion
③ Bezel complete assy

1-2-4. DC Fan (1) Removal



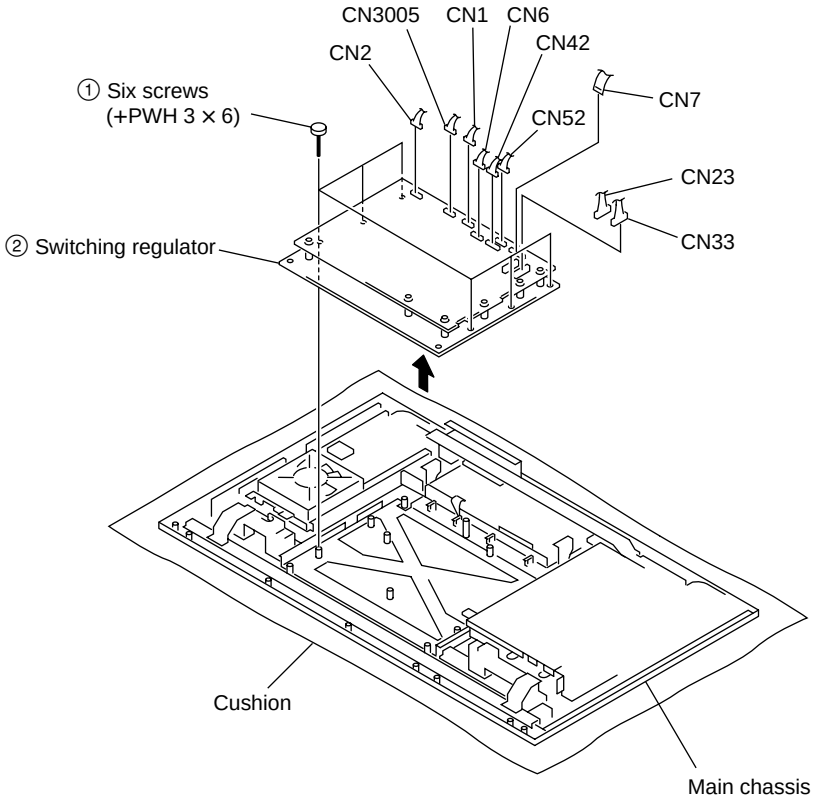
1-2-5. DC Fan (2) Removal



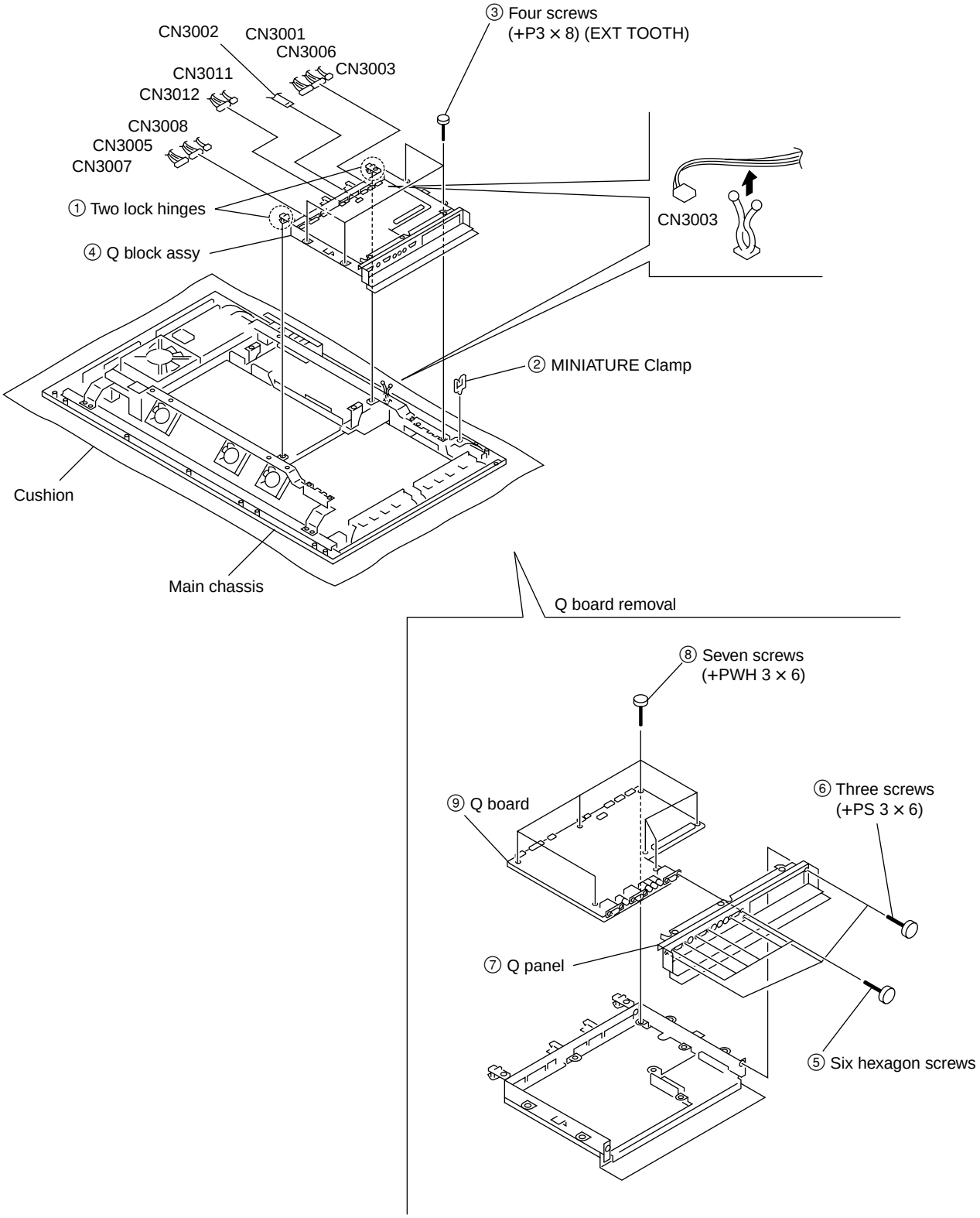
1-2-6. Switching Regulator Removal

Note

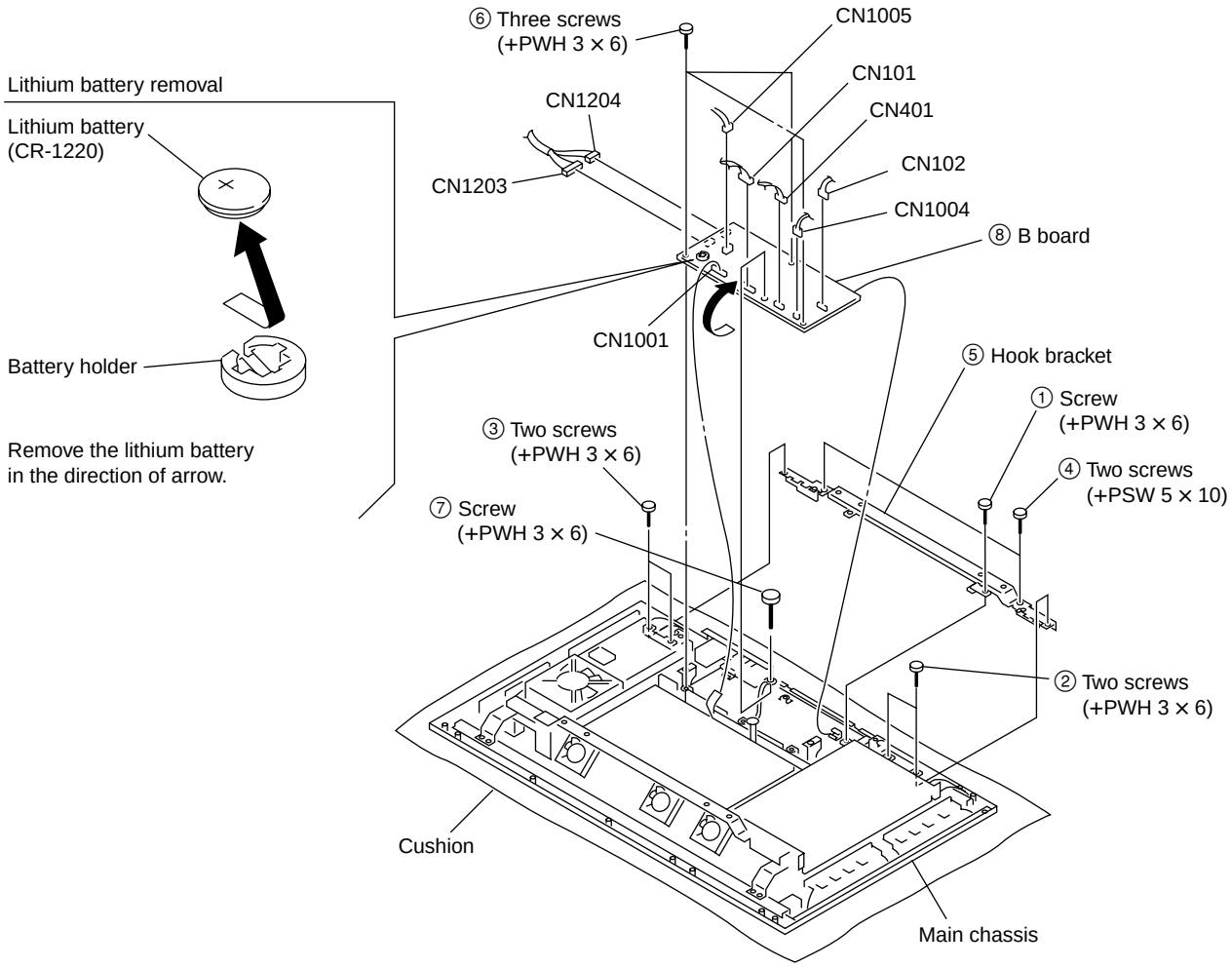
To remove the switching regulator, remove the DC fan (2) beforehand.



1-2-7. Q Block Assy Removal (Q Board)



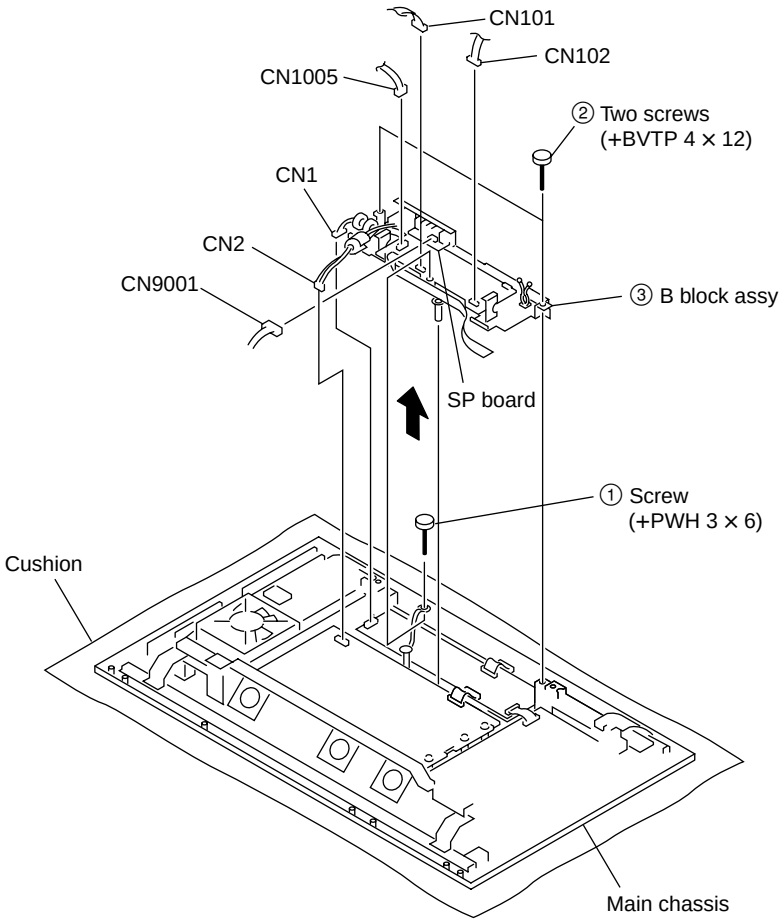
1-2-8. B Board Removal (Lithium Battery)



1-2-9. B Block Assy Removal

Note

To remove the “B” block assy, remove the Q block and the B board (hook bracket) beforehand referring to “B Board Removal”.



1-2-10. Power Cord

Use the proper power cord for your local power supply.

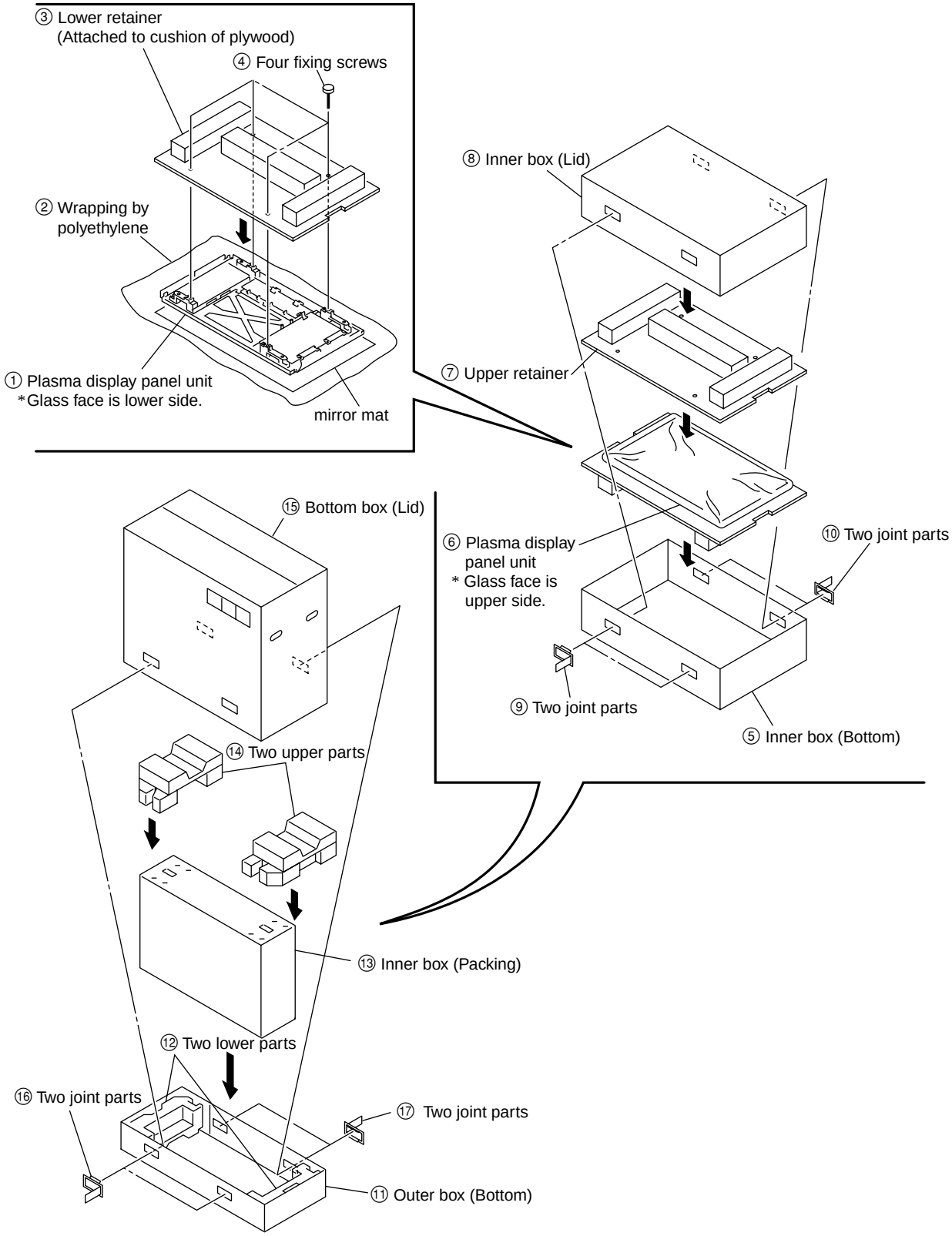
	United States, Canada	Continental Europe		United Kingdom, Ireland, Australia, New Zealand	Japan
Plug type	VM0233	COX-07	636 _a)	VM1296	
Female end	VM0089	COX-02	VM0310B	VM0303B	VM1313
Cord type	SVT	H05VV-F		CEE (13) 53rd (O.C)	HVCTF
Minimum cord set rating	10A/125V	10A/250V		10A/250V	10A/125V
Safety approval	UL/CSA	VDE		VDE	DENAN-HO

a) Note : Use an appropriate rating plug which is applied to local regulations.

1-2-11. Plasma Display Panel Unit Packing When Sending it to FUJITSU (FHP)

Note

Before sending the panel to FHP, remove the boards (B, H1, H2, Q, QA, S, SP) and switching regulator producted by SONY.


③ Lower retainer
(Attached to cushion of plywood)
④ Four fixing screws
② Wrapping by polyethylene
① Plasma display panel unit
*Glass face is lower side.
mirror mat
⑧ Inner box (Lid)
⑦ Upper retainer
⑥ Plasma display panel unit
* Glass face is upper side.
⑩ Two joint parts
⑨ Two joint parts
⑤ Inner box (Bottom)
⑮ Bottom box (Lid)
⑭ Two upper parts
⑬ Inner box (Packing)
⑫ Two lower parts
⑯ Two joint parts
⑰ Two joint parts
⑪ Outer box (Bottom)

Section 2
Electrical Adjustments

2-1. Equipment Required

- Oscilloscope
  Tektronix 2465 or equivalent
  (band width : 350 MHz or more)
- VG (Programmable video signal generator)
  VG814 or equivalent
- Frequency counter
  Advantest TR5821AK or equivalent
- Digital voltmeter
  Advantest TR6845 or equivalent
- Potential transformer
- Regulated DC power supply
- Remote commander (RM-971)

Note

Perform the following adjustments at least 5 minutes after turning on the power.

2-2. Electrical Adjustments Using the Service Mode

The electrical adjustments can be performed using the remote commander RM-42B supplied with the PFM-32C1/32C1E. The remote commander has the Service Mode. Select the Service Mode to perform the electrical adjustments as listed below.

- **Service Mode**

When the machine enters the service menu, the "Service Mode" submenu is displayed in addition to the ordinary user menu. The electrical adjustment is executed using the "Service Mode" submenu.

Service Mode

EEP ROM Initialize	Initializes the EEP ROM
Chroma Decoder	Chroma decoder adjustment
AD Converte	A/D converter adjustment
White Balance	White balance adjustment
General	Other adjustments and the
Manual Control	functions required for confirmation
Preset Edit	Factory check menu (Not used in service)
Service Status	Editing the preset signal
	Internal status confirmation

How to enter the Service Mode using the RM-971 :
In the STAND-BY state, press the keys in the following order.
DISPLAY → 5 → VOL+ → POWER ON

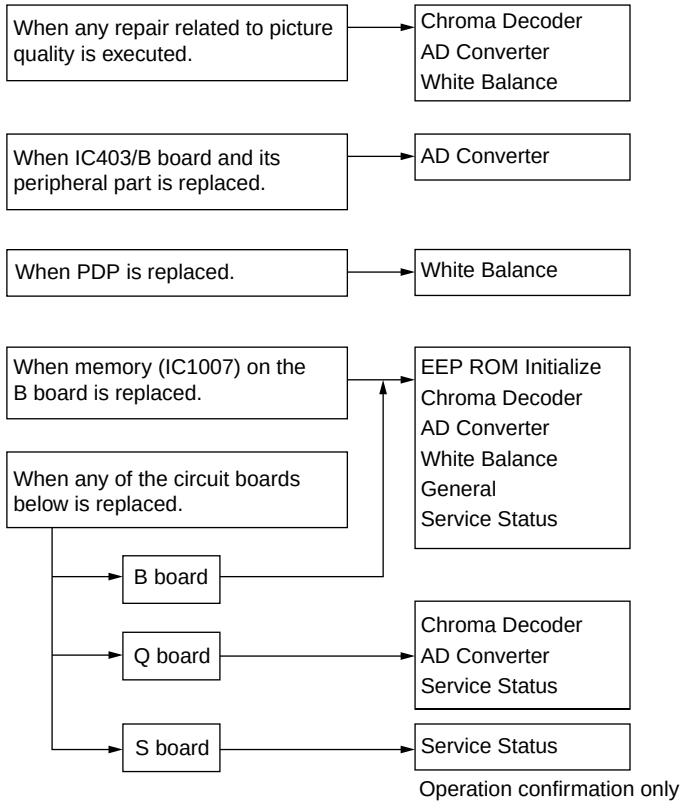
Press the STBY key once and back on to enter the STAND-BY state or turn off the main power to exit the Service Mode.

- **Operation of remote commander in the Service Mode**

The six keys of MENU, ENTER, ←, →, ↑ and ↓ are the basic operation keys in the same manner as in the user adjustment. The other keys can be operated in the same manner as in the user adjustment.

- **The electrical adjustments using the Service Mode become necessary in the following cases.**

When either one of the following adjustment is made, adjustment using the service mode becomes necessary.



Service Mode

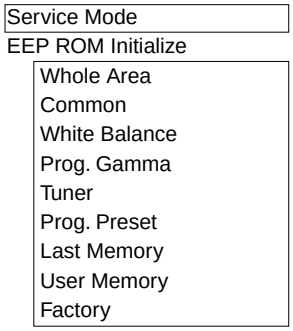
1. EEPROM Initialize

EEPROM Configuration

Table 1 shows the configuration of EEPROM. The entire area or the respective areas of the EEPROM can be separately initialized.

Menu Structure

Select the desired area of EEPROM to be initialized using the following menu.



To initialize the desired area, firstly select the desired item from the EEPROM RESET menu. Change the selected item from “CANCEL” to “OK”. Then press “ENTER”.

a) Whole Area
It initializes whole area of EEP ROM.
This command is identical to executing the all items of “Common”, “White Balance”, “Prog. Gamma”, “Tuner”, “Prog. Preset”, “Last Memory”, “User Memory” and “Factory”.
Execute this command only when the memory (IC1007) on the B board is replaced.

b) Common
It initializes “Common (1)”, “Common (2)” and “Common (3)” of the “COMMON DATA AREA” shown in Table 1.
It initializes the data unique to the particular machine and the shared data (various setup values of the user menu”.
Because it initializes the serial number and accumulative operation hours, do not execute this command.

c) White Balance
It initializes “Color Temp (1)” and “ Color Temp (2)” of the “COMMON DATA AREA” shown in Table 1.
It initializes the color temperature “High”, “Mid” and “Low”, and all data of user setup 1 to 3 to all 0.
It also initializes the user name to “User1”, “User2” and “User3”.

d) Prog. Gamma
This command is not used in this machine.

e) Tuner
This command is not used in this machine.

f) Prog. Preset
It initializes the “PRESET DATA AREA” shown in Table 1.
It resets the backup preset area.

g) Last Memory
It initializes “LAST MEMORY AREA” shown in Table 1.
It initializes the last memory data that user has adjusted for each signal.

h) User Memory
It initializes “USER MEMORY AREA” shown in Table 1.
It resets all of the 20 types of the adjustment data that are saved in the “User Memory” function of the user menu.

i) Factory
It resets the EEP ROM to the factory default status.
All of the EEP ROM areas except the following are initialized by this command.

Items that are not initialized by the “FACTORY” RESET function.

In the COMMON DATA AREA

① Index Number stored in the Common (1) [General]
② Watch Error and Serial Number data stored in the Common (2) [General]
③ Service (1) [AD Converter] Adjustment data of 2-4. AD Calibration Adjustment.
④ Service (2) [Chroma Decoder] Adjustment data of 2-5. Sub Color, Sub Hue Adjustment and 2-6. Video Decoder Adjustment.
⑤ Adjustment data in Color Temp (1) [Data & Name] at the factory except user adjustment value. (Adjustment data of 2-3. White Balance Adjustment)

2. Chroma Decoder

Menu structure

Hue and color of the video signal are adjusted.

Service Mode		
Chroma Decoder		
Hue		
Sub Contrast	:	8
Sub Color		
Sharp Gain	:	8
Sharp f0	:	3
Y Out Level	:	18
C Out Level	:	10
Y Delay		
Cb Offset	:	8
Cr Offset	:	8
By Adj (SECAM)	:	8
Ry Adj (SECAM)	:	8

a) Hue
To adjust NTSC signal hue, adjust “Hue (NTSC)” in the lower layer below this sub menu.
To adjust NTSC4.43 signal hue, adjust “Hue (NT443)” in the lower layer below this sub menu.
Adjustment range is from 0 to 63.

b) Sub Contrast
Adjustment range is from 0 to 63.
Fixed value : 8

c) Sub Color
Adjust “Col (NTSC)”, “Col (PAL)” and “Col (SECAM)” for the respective signals of NTSC, PAL and SECAM.
Adjustment range is from 0 to 15.
Fixed value for Col (NTSC) only : 6

d) Sharp Gain
Adjustment range is from 0 to 15.
Fixed value : 8

e) Sharp f0
Adjustment range is from 0 to 3.
Fixed value : 3

f) Y Out Level
Adjustment range is from 0 to 63.
Fixed value : 18

g) C Out Level
Receive the NTSC signal and adjust color. The color adjustment of PAL and SECAM signals are performed upon completion of the NTSC signal adjustment, and use step c) Sub Color.
Adjustment range is from 0 to 63.

h) Y Delay
Y delay for the respective signals can be adjusted by “YDL (NTSC)”, “YDL (PAL)”, “YDL (SECAM), “YDL (NT443)”, “YDL (PALM)” and “YDL (PALN)” respectively.
Adjustment range is from 0 to 15.
Fixed value : 5

i) Cb Offset
Adjustment range is from 0 to 15.
Fixed value : 8

j) Cr Offset
Adjustment range is from 0 to 15.
Fixed value : 8

k) By Adj (SECAM)
The blue offset when receiving the SECAM signal is adjusted.
Adjustment range is from 0 to 15.

l) Ry Adj (SECAM)
The red offset when receiving the SECAM signal is adjusted.
Adjustment range is from 0 to 15.

Sub Color and Sub Hue Adjustments

Refer to section “2-5. Sub Color and Sub Hue Adjustment”.

Video Decoder Adjustment

Refer to section “2-6. Video Decoder Adjustment”.

3. AD Converter

Menu structure

This adjustment corrects non-uniformity between RGB (or YCbCr) channels of AD converter (IC403).

Service Mode		
AD Converter		
Cal Mode	:	off
RGB Calibration		
YUV Calibration		
Video Calibration		

a) Cal Mode
Set to “On” to enter the calibration mode.
Off : Normal operation
On : Calibration mode

b) RGB Calibration
The RGB signals are calibrated.
The RGB signals are calibrated by “Sub Cont RGB”, “Red Gain”, “Green Gain”, “Blue Gain”, “Red Bias”, “Green Bias” and “Blue Bias” that are located in the lower layer below this sub menu.
Adjustment range is from 0 to 255 in each adjustment item.

c) YUV Calibration
The component video signal is calibrated.
The component video signal is calibrated by “Sub Cont YUV”, “Sub Brt YUV”, “Cb Offset YUV” and “Cr Offset YUV”.
Adjustment range is from 0 to 255 for “Sub Cont YUV” and “Sub Brt YUV”, and from 0 to 63 for “Cb Offset YUV” and “Cr Offset YUV”.

d) Video Calibration
The composite video signal is calibrated.
The composite video signal is calibrated by “Sub Cont Video”, “Sub Brt Video”, “Cb Offset Video” and “Cr Offset Video”.
Adjustment range is from 0 to 255 for “Sub Cont Video” and “Sub Brt Video”, and from 0 to 63 for “Cb Offset Video” and “Cr Offset Video”.

AD Calibration Adjustment

Refer to section “2-4. AD Calibration Adjustment”.

4. White Balance

Menu structure

White balance of PDP panel is adjusted.

Service Mode		
White Balance		
Window	:	Off
Color Temp.	:	High
Red Gain		IIIIIIIIII
Green Gain		IIIIIIIIII
Blue Gain		IIIIIIIIII

a) Window
This machine has the built-in window signal for white balanced adjustment. Select either small or large window for suitable adjustment.
Off : Window is not displayed.
Small : Small window is displayed.
Large : Large window is displayed.

b) Color Temp.
Select the desired color temperature that you want to adjust located in the lower layer below this sub menu.
Select the desired color temperature from “High”, “Mid”, “Low”, “User 1”, “User 2” and “User 3”.

Note

Because “User 1”, “User 2” and “User 3” can be adjusted from the user menu, they are not adjusted here.

c) Red Gain
Red gain of the selected “Color Temp.” is adjusted.
Adjustment range is from −127 to +128.

d) Green Gain
Green gain of the selected “Color Temp.” is adjusted.
Adjustment range is from −127 to +128.

e) Blue Gain
Blue gain of the selected “Color Temp.” is adjusted.
Adjustment range is from −127 to +128.

White Balance Adjustment

Refer to section “2-3. White Balance Adjustment ”.

5. General

Menu structure

The data that are unique to the particular machine and the fan control are checked.

Service Mode
General

Blue Only	:	0
AGC Wide	:	14
AGC Narrow	:	13
32k Clock Out	:	Off
Watch Error	:	32.76800
Serial Number	:	2000001
Fan Status		
Vs/Va Setting		

a) Blue Only
When “1” is set, all colors of RGB channels on the PDP become blue data only.

b) AGC Wide
This command is not used in this machine.

c) AGC Narrow
This command is not used in this machine.

d) 32k Clock Out
The clock signal that is used for the Watch Error adjustment is output.
Off : Not output.
On : Output

e) Watch Error
It corrects error of the built-in watch.
Set the measurement value of the frequency counter connected.
Adjustment range is from 32.76180 to 32.77420 kHz.

f) Serial Number
It sets serial number.

g) Fan Status

Menu structure

Service Mode
General
Fan Status

Fan Control	:	Auto
Ref Voltage	:	8.5[V]
F/B Voltage	:	8.5[V]
Drive Data		2B5F
P/S Temp	:	43[dC]
Center Temp	:	43[dC]
I/O Block Temp	:	43[dC]
Left Temp	:	43[dC]

Fan Control : You can select [Auto] or [Manual]. If you select [Manual], you can set the any desired voltage to the fan drive voltage using [Ref Voltage]. Use this command for checking operation of the fan drive circuit. Select [Auto] during normal operation.

Ref Voltage : You can set the any desired voltage to the fan drive voltage when you have selected [Manual] in the “Fan Control”. Range of setting is from 0.0 V to 13.0 V. The fan drive voltage returns to the default value when the POWER is turn off and back on again.

F/B Voltage : It indicates the fan drive voltage. The voltage that is actually driving the fan is displayed as the setting voltage is being supplied.

Drive Data : It indicates the fan drive data.

P/S Temp : It indicates the temperature that is measured by the temperature sensor built in the power board.

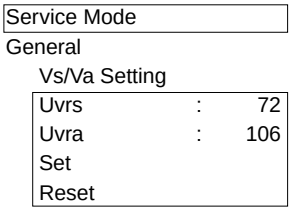
Center Temp : It indicates the temperature that is measured by the temperature sensor attached on top of the power board.

I/O Block Temp : It indicates the temperature that is measured by the temperature sensor attached on top of the Q block assy.

Left Temp : It indicates the temperature that is measured by the temperature sensor attached near the fan (large).

h) Vs/Va Setting

Menu structure



Uvrs : You can establish the setup regarding the panel power supply Vs. Calculate the setup value Uvrs from equations (1) and (2) below.
$Vs = 70 + 10 \times Vrs$ ..... equation (1)
where
$Vrs = 2.99 \times Uvrs/255$ ..... equation (2)

Uvra : You can establish the setup regarding the panel power supply Va. Calculate the setup value Uvra from equations (3) and (4) below.
$Va = 30 + 20 \times Vra$ ..... equation (3)
where
$Vra = 2.99 \times Uvra/255$ ..... equation (4)

Set : You can make the entered Uvrs and Uvra valid. Change the menu item from [Cancel] to [OK] and press [ENTER].

Note

Perform this setup only when the logic board located in the bottom center on the rear of the PDP panel, is replaced. Take reading of the Vs voltage value and the Va voltage value that is written on the label on the rear of the PDP panel, and enter the Vs and Va values in the equations (1) and (3).

Reset : You can return the Uvrs and Uvra to their default value. Change the menu item from [Cancel] to [OK] and press [ENTER].

6. Manual Control

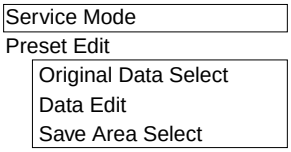
These submenu items are used in factory for operation checks.
Do not operate this function.

7. Preset Edit

Preset data structure

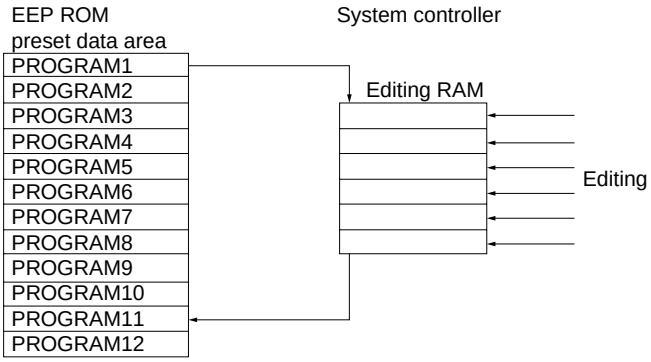
You can add the preset signals in addition to the default preset data.
The additional preset data are stored in [PROGRAM1] to [PROGRAM12] of [PRESET DATA AREA]. [PROGRAM13] to [PROGRAM30] are not used.

Menu structure



Editing procedure

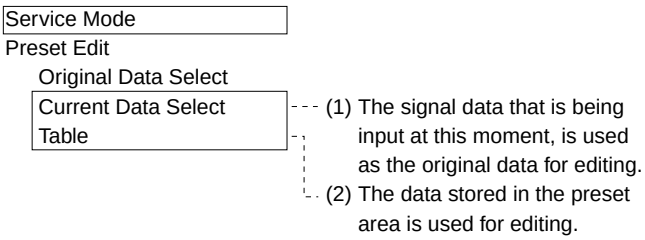
An independent memory area (editing RAM) is assigned for data editing inside the system controller as shown.
First, copy the source data for editing to the editing RAM.
Then modify the data on the editing RAM and save the editing contents to the specified preset area of EEP ROM.
In addition to the default preset data that has been set already when shipped from the factory, you can edit the various data from the already saved data in EEP ROM or the signal data that is being input at this moment.
(An example shows the case the data stored in the EEP ROM preset area No.2 is used for editing and the edited data is stored in the area No.11.)



a) Original Data Select

Menu structure

You can select the original data that is used for editing and copy the selected original data to the editing RAM.


Service Mode
Preset Edit
Original Data Select
Current Data Select
Table
(1) The signal data that is being input at this moment, is used as the original data for editing.
(2) The data stored in the preset area is used for editing.

(1) Current Data Select
When you select the signal data that is being input at this moment for editing, move the cursor to this item and press ENTER.
The selected data is copied to the editing RAM.
This mode is prepared for the case that the signal specification is unknown, and you can make editing by confirming the specification on screen.
Select the respective adjustment items and change the data as desired using the ↑/↓ key or the ←/→ key. The changed data are reflected on screen.
(If you press the ENTER key again, the screen returns to the previous menu.)
Among the adjustment items, the three types of adjustment [H Freq], [V Freq] and [Sync Pol] cannot be modified.

(2) Table
When you select the data stored in the preset area, move the cursor to this item and press ENTER. Select the desired data using the ↑/↓ key. The selected data is copied to the editing RAM.
This mode is prepared for the case that the signal specification is already known. You can make adjustment and edit data of all items but the modified data are not reflected to the actual picture images.

b) Data Edit

Menu structure

You can edit the data contents of the editing RAM.

Service Mode
Preset Edit
Data Edit

H Freq	:	031.469[kHz]	-- (1) Horizontal frequency
V Freq	:	059.94[Hz]	-- (2) Vertical frequency
Sync Pol	:	N/N	-- (3) Sync signal polarity
H. Total Pixel	:	800	-- (4) Total number of dots within horizontal
H. Active Pixel	:	640	-- (5) Horizontal resolution power
H. Sync Pixel	:	96	-- (6) Number of dots of horizontal sync signal
H. BP Pixel	:	48	-- (7) Number of dots during the horizontal back porch
V. total Line	:	525	-- (8) Total number of vertical lines
V. Active Line	:	480	-- (9) Vertical resolution power (number of lines)
V. Sync Line	:	2	-- (10) Total number of lines of vertical sync signal
V. BP Line	:	33	-- (11) Number of lines during the vertical back porch
Clamp Posi	:	60	-- (12) Clamp pulse position
Clamp Width	:	8	-- (13) Clamp pulse width (number of dots)
Format Flag			-- (14) Format flag
Picture Mode	:	Standard	-- (15) Picture quality mode
Color Matrix	:	12	-- (16) Color difference matrix
Zoom Mode	:	4/3	-- (17) Wide selection

(1) H Freq

It sets the horizontal frequency.

Note

When “Current Data Select” is selected in the Original Data Select, this item cannot be modified because the presently entered signal is selected for editing.

(2) V Freq

It sets the vertical frequency.

Note

When “Current Data Select” is selected in the Original Data Select, this item cannot be modified because the presently entered signal is selected for editing.

(3) Sync Pol

It sets the sync signal polarity. Sync polarities are displayed in the order of “Horizontal/Vertical”.

Sync Pol : N/N
Horizontal sync polarity
Vertical sync polarity

When you set the sync signal polarity, set it as shown below.

Nagative polarity : N
Positive polarity : P
SOG : SOG

Note

When “Current Data Select” is selected in the Original Data Select, this item cannot be modified because the presently entered signal is selected for editing.

(4) H. Total Pixel

It sets the total number of dots within a single horizontal cycle.

This setup value becomes the default value of the user menu “Total H Pixel”.

Note

You should set in a way that number of H. Total Pixels is equal or more than sum of (H. Active Pixel +H. Sync Pixel +H. BP Pixel).

(5) H. Active Pixel
It sets the horizontal resolution power.

(6) H. Sync Pixel
It sets the number of dots of horizontal sync signal.

(7) H. BP Pixel
It sets the number of dots during the horizontal back porch.

(8) V. total Line
It sets the total number of vertical lines.

Note

You should set in a way that number of V. Total Line is equal or more than sum of (V. Active Line + V. Sync Line + V. BP Line).

(9) V. Active Pixel
It sets the vertical resolution power.

(10) V. Sync Line
It sets the total number of lines of vertical sync signal.

(11) V. BP Pixel
It sets the number of lines during the vertical back porch.

(12) Clamp Posi
It sets clamp pulse position.
The clamp pulse position is set starting (when data is 0) from the trailing edge of the horizontal sync signal. When this data is increased, picture moves toward the picture area.
The clamp pulse generation position Tcp is given by the equation below starting from the trailing edge of sync signal.
Tcp = Clamp Posi/(Horizontal sync frequency × H. Total Pixel) [seconds]

(13) Clamp Width
It sets the clamp pulse width.
The clamp pulse width increases starting from the position that is set by the Clamp Posi. When this value is increased, the clamp pulse width is widened in the direction toward picture area.
The clamp pulse width Wcp is given by the equation below.
Wcp = Clamp Width/(Horizontal sync frequency × H. Total Pixel) [seconds]

(14) Format Flag
It sets ON/OFF of the following respective items in units of bit.

0	0	0	0	0	0	0	0	1 : ON
				①	②	③	④	0 : OFF

Upper 4 bits are not used.

① Setting the IP converter
Set to OFF during normal operation.

② Setting interlace
It sets the interlace input.
ON : When the input signal is the interlaced signal.
OFF : When the input signal is the progressive signal.

③ Setting to enable the “dot adjustment”
It enables or disables the “dot adjustment” in the user menu.
ON : The “dot adjustment” is enabled in the user menu.
OFF : The “dot adjustment” is disabled in the user menu.
If the actual input signal specification is different from the setups of “H. Total Pixel” and “H. Active Pixel” due to fetching the interlace, set this item to OFF.

④ Frame synchronization setting
It sets synchronization setting of the picture input to scan converter.
ON : Vertical sync of PDP panel synchronizes with the input signal.
OFF : The PDP panel display signal is no more synchronized with the input signal. When the motion picture is going to be displayed, set this item to ON.

Note

This item can be set to ON only when the vertical frequency of input signal is in the range from 50 to 60 Hz.

(15) Picture Mode
It sets the picture quality mode. Select the desired mode from “Standard”, “Vivid”, “Use1”, “User2” or “User3”.
This setting becomes the default value of the “Picture Mode” of user menu.

(16)Color Matrix

It sets the color difference matrix when the color difference component signal is input.

Either “12” or “13” can be set.

12 : In the case when the signal conforms to SMPTE293M.

13 : In the case when the signal conforms to SMPTE294M.

(17)Zoom Mode

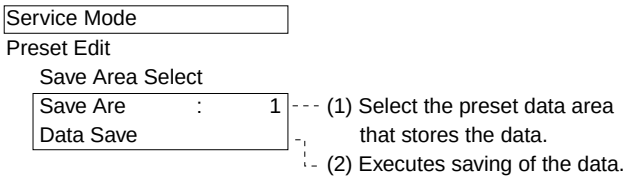
It sets the wide selection. Select the desired mode from “Expd. 4/3”, “Letterbx”, “Restore”, “Subtitle” or “4/3”.

This setting becomes the default value of the “Picture Quality Mode” of user menu.

c) Save Area Select

Menu structure

It saves the data of the editing RAM to the preset area.


Service Mode
Preset Edit
Save Area Select
Save Are : 1
Data Save
(1) Select the preset data area that stores the data.
(2) Executes saving of the data.

(1) Save Area

It selects the preset data area that saves contents of the editing RAM.

Select the desired area from “PROGRAM1” to “PROGRAM12”.

(2) Data Save

It executes saving of the data into the area that is selected by the Save Area.

Change the menu item from [Cancel] to [OK] and press [ENTER].

Note

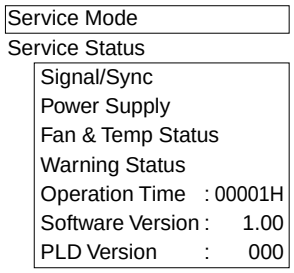
You can judge coincidence of the preset data with the input signal using the sync signal polarity of horizontal/vertical frequencies.

If the same sync signal data exists within a preset area, the specification that has the smaller preset number has priority.

8. Service Status

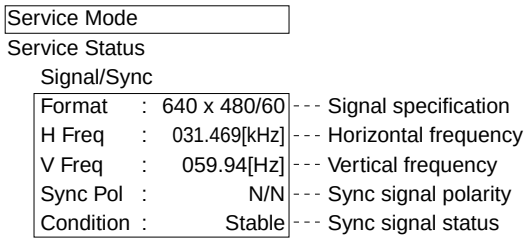
Menu structure

You can confirm internal status of the PDP panel.



a) Signal/Sync

Menu structure



The sync signal status of the input signal is displayed.

Format : The preset signal name for the input signal is displayed.

H Freq : Horizontal frequency of the input is displayed in 6 digits.

V Freq : Vertical frequency of the input is displayed in 5 digits.

Sync Pol : Sync signal polarity is displayed.

Conditions : Sync signal status is displayed.

Stable : Stable

Insecure : Unstable

No Sync : Sync signal does not exist.

b) Power Supply

Menu structure

```
Service Mode
Service Status
    Power Supply
    Digital 5V   :  5.0[V]  --- 5 V for digital circuit
    Digital 3V   :  3.3[V]  --- 3 V for digital circuit
    Analog 6V    :  6.0[V]  --- 6 V for analog circuit
```

Main DC voltages of this model are displayed.

Digital 5 V : Internal 5 V power supply voltage is displayed.

Digital 3 V : Internal 3.3 V power supply voltage is displayed.

Analog 6 V : Internal 6 V power supply voltage is displayed.

c) Fan & Temp Status

Menu structure

```
Service Mode
Service Status
    Fan&Temp Status
    Fan Drive    :  OK
    Fan          :  OK
    P/S Temp     :  OK

    P/S Temp     :  44[°C]
    NO ACK DEV   :  0004
```

The internal temperature of the machine and the fan operating status are displayed.

Fan Drive : Operating status of the fan drive circuit is displayed. [OK] appears when it operates normally. [NG] appears when it does not operate normally.

Fan : Operating status of the fan is displayed. [OK] appears when all fans operate normally. [NG] appears when any one of the fans does not operate normally.

P/S Temp : Temperature status inside the power supply block is displayed. [OK] appears when temperature is normal. [NG] appears when temperature is abnormal.

P/S Temp : Temperature inside the power supply block is displayed.

NO ACK DEV : Status whether the communication with the respective devices that are controlled by the I^2C bus, is established or not is displayed.

When the value that is displayed on the PDP panel, is converted to the binary number, the each bit has the following meaning.

Bit 0 : Audio Processor Each bit 0 : OK, 1 : NG
Bit 1 : Audio Switch
Bit 2 : AV Switch
Bit 3 : Closed Caption Decoder
Bit 4 : 3D Comb filter
Bit 5 : Chroma Decoder
Bit 6 : PDP
Bit 7 : Tuner (No Use for PFM)
Bit 8 : Auto Wide Decoder
Bit 9 : AD Converter
Bit 10 : EEP ROM
Bit 11 : IP Converter (System IC)
Bit 12 : OSD (No Use for PFM)
Bit 13 : PLD (No Use for PFM)
Bit 14 : RTC (No Use for PFM)
Bit 15 : Scan Converter (No Use for PFM)

Note

Because this type of PDP panel is not equipped with the AV switch, bit 2 always goes to 1.

d) Warning Status

Menu structure

Service Mode
Service Status
Warning Status

EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK
DC Init	:	OK
Power Off	:	OK

The warning information is displayed.

EEP ID : ID CODE error
EEP Save : Data write error
EEP Load : Data read error
RTC Init : Watch initialization error
RTC VDET : Watch power voltage error (1.8 V or less)
RTC XSTOP : Watch oscillator error
PDP Init : PDP initialization error
DEC Init : Chroma decoder initialization error
DC Init : Power voltage (digital system 5 V, digital system 3.3 V, analog system 6 V) error
Power Off : Power-off sequence error

e) Operation Time
Accumulative operating hours are indicated. (In units of hour)
f) Software Version
Software version is indicated.
g) PLD Version
PLD version is indicated.

Table 1. EEP ROM memory map

Name		Address
COMMON DATA AREA	Common (1) [General]	0x0000 to 0x001F
	Common (2) [General]	0x0020 to 0x003F
	Common (3) [Parental Control]	0x0040 to 0x005F
	System	0x0060 to 0x007F
	Service (1) [AD Converter]	0x0080 to 0x009F
	Service (2) [Chroma Decoder]	0x00A0 to 0x00BF
	Service (3) [IP Converter]	0x00C0 to 0x00DF
	reserved	0x00E0 to 0x00FF
	reserved	0x0100 to 0x011F
	Color Temp (1) [Data & Name]	0x0120 to 0x013F
	Color Temp (2) [Name]	0x0140 to 0x015F
	Programmable Gamma	0x0160 to 0x017F
	Tv Tuner (1) [Common]	0x0180 to 0x019F
	Tv Tuner (2) [Channel Number]	0x01A0 to 0x01BF
	Tv Tuner (3) [Mode Flag1]	0x01C0 to 0x01DF
	Tv Tuner (4) [Mode Flag2]	0x01E0 to 0x01FF
	Tv Tuner (5) [Mode Flag3]	0x0200 to 0x021F
	Tv Tuner (6) [Mode Flag4]	0x0220 to 0x023F
PRESET DATA AREA	PROGRAM1	0x0240 to 0x025F
	PROGRAM2	0x0260 to 0x027F
	PROGRAM3	0x0280 to 0x029F
	PROGRAM4	0x02A0 to 0x02BF
	PROGRAM5	0x02C0 to 0x02DF
	PROGRAM6	0x02E0 to 0x02FF
	PROGRAM7	0x0300 to 0x031F
	PROGRAM8	0x0320 to 0x033F
	PROGRAM9	0x0340 to 0x035F
	PROGRAM10	0x0360 to 0x037F
	PROGRAM11	0x0380 to 0x039F
	PROGRAM12	0x03A0 to 0x03BF
	PROGRAM13	0x03C0 to 0x03DF
	PROGRAM14	0x03E0 to 0x03FF
	PROGRAM15	0x0400 to 0x041F
	PROGRAM16	0x0420 to 0x043F
	PROGRAM17	0x0440 to 0x045F
	PROGRAM18	0x0460 to 0x047F
	PROGRAM19	0x0480 to 0x049F
	PROGRAM20	0x04A0 to 0x04BF
	PROGRAM21	0x04C0 to 0x04DF
	PROGRAM22	0x04E0 to 0x04FF
	PROGRAM23	0x0500 to 0x051F
	PROGRAM24	0x0520 to 0x053F

Name		Address
PRESET DATA AREA	PROGRAM25	0x0540 to 0x055F
	PROGRAM26	0x0560 to 0x057F
	PROGRAM27	0x0580 to 0x059F
	PROGRAM28	0x05A0 to 0x05BF
	PROGRAM29	0x05C0 to 0x05DF
	PROGRAM30	0x05E0 to 0x05FF
LAST MEMORY AREA	Area 1	0x0600 to 0x061F
		0x0620 to 0x063F
		0x0640 to 0x065F
		0x0660 to 0x067F
	Area 2	0x0680 to 0x069F
		0x06A0 to 0x06BF
		0x06C0 to 0x06DF
		0x06E0 to 0x06FF
	Area 3	0x0700 to 0x071F
		0x0720 to 0x073F
		0x0740 to 0x075F
		0x0760 to 0x077F
	Area 4	0x0780 to 0x079F
		0x07A0 to 0x07BF
		0x07C0 to 0x07DF
		0x07E0 to 0x07FF
	Area 5	0x0800 to 0x081F
		0x0820 to 0x083F
		0x0840 to 0x085F
		0x0860 to 0x087F
	Area 6	0x0880 to 0x089F
		0x08A0 to 0x08BF
		0x08C0 to 0x08DF
		0x08E0 to 0x08FF
	Area 7	0x0900 to 0x091F
		0x0920 to 0x093F
		0x0940 to 0x095F
		0x0960 to 0x097F
	Area 8	0x0980 to 0x099F
		0x09A0 to 0x09BF
		0x09C0 to 0x09DF
		0x09E0 to 0x09FF
	Area 9	0x0A00 to 0x0A1F
		0x0A20 to 0x0A3F
		0x0A40 to 0x0A5F
		0x0A60 to 0x0A7F

Name		Address
LAST MEMORY AREA	Area 10	0x0A80 to 0x0A9F
		0x0AA0 to 0x0ABF
		0x0AC0 to 0x0ADF
		0x0AE0 to 0x0AFF
	Area 11	0x0B00 to 0x0B1F
		0x0B20 to 0x0B3F
		0x0B40 to 0x0B5F
		0x0B60 to 0x0B7F
	Area 12	0x0B80 to 0x0B9F
		0x0BA0 to 0x0BBF
		0x0BC0 to 0x0BDF
		0x0BE0 to 0x0BFF
	Area 13	0x0C00 to 0x0C1F
		0x0C20 to 0x0C3F
		0x0C40 to 0x0C5F
		0x0C60 to 0x0C7F
	Area 14	0x0C80 to 0x0C9F
		0x0CA0 to 0x0CBF
		0x0CC0 to 0x0CDF
		0x0CE0 to 0x0CFF
	Area 15	0x0D00 to 0x0D1F
		0x0D20 to 0x0D3F
		0x0D40 to 0x0D5F
		0x0D60 to 0x0D7F
	Area 16	0x0D80 to 0x0D9F
		0x0DA0 to 0x0DBF
		0x0DC0 to 0x0DDF
		0x0DE0 to 0x0DFF
	Area 17	0x0E00 to 0x0E1F
		0x0E20 to 0x0E3F
		0x0E40 to 0x0E5F
		0x0E60 to 0x0E7F
	Area 18	0x0E80 to 0x0E9F
		0x0EA0 to 0x0EBF
		0x0EC0 to 0x0EDF
		0x0EE0 to 0x0EFF
	Area 19	0x0F00 to 0x0F1F
		0x0F20 to 0x0F3F
		0x0F40 to 0x0F5F
		0x0F60 to 0x0F7F
	Area 20	0x0F80 to 0x0F9F
		0x0FA0 to 0x0FBF
		0x0FC0 to 0x0FDF
		0x0FE0 to 0x0FFF

Name		Address
LAST MEMORY AREA	Area 21	0x1000 to 0x101F
		0x1020 to 0x103F
		0x1040 to 0x105F
		0x1060 to 0x107F
	Area 22	0x1080 to 0x109F
		0x10A0 to 0x10BF
		0x10C0 to 0x10DF
		0x10E0 to 0x10FF
	Area 23	0x1100 to 0x111F
		0x1120 to 0x113F
		0x1140 to 0x115F
		0x1160 to 0x117F
	Area 24	0x1180 to 0x119F
		0x11A0 to 0x11BF
		0x11C0 to 0x11DF
		0x11E0 to 0x11FF
	Area 25	0x1200 to 0x121F
		0x1220 to 0x123F
		0x1240 to 0x125F
		0x1260 to 0x127F
	Area 26	0x1280 to 0x129F
		0x12A0 to 0x12BF
		0x12C0 to 0x12DF
		0x12E0 to 0x12FF
	Area 27	0x1300 to 0x131F
		0x1320 to 0x133F
		0x1340 to 0x135F
		0x1360 to 0x137F
	Area 28	0x1380 to 0x139F
		0x13A0 to 0x13BF
		0x13C0 to 0x13DF
		0x13E0 to 0x13FF
	Area 29	0x1400 to 0x141F
		0x1420 to 0x143F
		0x1440 to 0x145F
		0x1460 to 0x147F
	Area 30	0x1480 to 0x149F
		0x14A0 to 0x14BF
		0x14C0 to 0x14DF
		0x14E0 to 0x14FF
	Area 31	0x1500 to 0x151F
		0x1520 to 0x153F
		0x1540 to 0x155F
		0x1560 to 0x157F

Name		Address
LAST MEMORY AREA	Area 32	0x1580 to 0x159F
		0x15A0 to 0x15BF
		0x15C0 to 0x15DF
		0x15E0 to 0x15FF
USER MEMORY AREA	Area 1	0x1600 to 0x161F
		0x1620 to 0x163F
		0x1640 to 0x165F
		0x1660 to 0x167F
	Area 2	0x1680 to 0x169F
		0x16A0 to 0x16BF
		0x16C0 to 0x16DF
		0x16E0 to 0x16FF
	Area 3	0x1700 to 0x171F
		0x1720 to 0x173F
		0x1740 to 0x175F
		0x1760 to 0x177F
	Area 4	0x1780 to 0x179F
		0x17A0 to 0x17BF
		0x17C0 to 0x17DF
		0x17E0 to 0x17FF
	Area 5	0x1800 to 0x181F
		0x1820 to 0x183F
		0x1840 to 0x185F
		0x1860 to 0x187F
	Area 6	0x1880 to 0x189F
		0x18A0 to 0x18BF
		0x18C0 to 0x18DF
		0x18E0 to 0x18FF
	Area 7	0x1900 to 0x191F
		0x1920 to 0x193F
		0x1940 to 0x195F
		0x1960 to 0x197F
	Area 8	0x1980 to 0x199F
		0x19A0 to 0x19BF
		0x19C0 to 0x19DF
		0x19E0 to 0x19FF
	Area 9	0x1A00 to 0x1A1F
		0x1A20 to 0x1A3F
		0x1A40 to 0x1A5F
		0x1A60 to 0x1A7F
	Area 10	0x1A80 to 0x1A9F
		0x1AA0 to 0x1ABF
		0x1AC0 to 0x1ADF
		0x1AE0 to 0x1AFF

Name		Address
	Area 11	0x1B00 to 0x1B1F
		0x1B20 to 0x1B3F
		0x1B40 to 0x1B5F
		0x1B60 to 0x1B7F
	Area 12	0x1B80 to 0x1B9F
		0x1BA0 to 0x1BBF
		0x1BC0 to 0x1BDF
		0x1BE0 to 0x1BFF
	Area 13	0x1C00 to 0x1C1F
		0x1C20 to 0x1C3F
		0x1C40 to 0x1C5F
		0x1C60 to 0x1C7F
	Area 14	0x1C80 to 0x1C9F
		0x1CA0 to 0x1CBF
		0x1CC0 to 0x1CDF
		0x1CE0 to 0x1CFF
	Area 15	0x1D00 to 0x1D1F
		0x1D20 to 0x1D3F
		0x1D40 to 0x1D5F
		0x1D60 to 0x1D7F
	Area 16	0x1D80 to 0x1D9F
		0x1DA0 to 0x1DBF
		0x1DC0 to 0x1DDF
		0x1DE0 to 0x1DFF
	Area 17	0x1E00 to 0x1E1F
		0x1E20 to 0x1E3F
		0x1E40 to 0x1E5F
		0x1E60 to 0x1E7F
	Area 18	0x1E80 to 0x1E9F
		0x1EA0 to 0x1EBF
		0x1EC0 to 0x1EDF
		0x1EE0 to 0x1EFF
	Area 19	0x1F00 to 0x1F1F
		0x1F20 to 0x1F3F
		0x1F40 to 0x1F5F
		0x1F60 to 0x1F7F
	Area 20	0x1F80 to 0x1F9F
		0x1FA0 to 0x1FBF
		0x1FC0 to 0x1FDF
		0x1FE0 to 0x1FFF

Table 2. Factory Preset Data

	Format	Name	Resolution H(dot) × V(line)	fh [kHz]	fv [Hz]	H/V Sync Polarity	Signal Type	Scanning Format	Pixel Clock [MHz]	Horizontal (dot)				
										Total	Act	Sync	FP	BP
1	VGA	640x350@70Hz	640 × 350	31.469	70.086	P/N	RGB	Progressive	25.175	800	640	96	16	48
2	VESA	640x350@85Hz		37.861	85.08	P/N	RGB	Progressive	31.5	832	640	64	32	96
3	VESA	640x400@85Hz	640 × 400	37.861	85.08	N/P	RGB	Progressive	31.5	832	640	64	32	96
4	VESA	640x480@60Hz	640 × 480	31.469	59.94	N/N	RGB	Progressive	25.175	800	640	96	16	48
5	MAC	13inch		35	66.667	N/N	RGB	Progressive	30.24	864	640	64	64	96
6	VESA	640x480@72Hz		37.861	72.809	N/N	RGB	Progressive	31.5	832	640	40	24	128
7	VESA	640x480@75Hz		37.5	75	N/N	RGB	Progressive	31.5	840	640	64	16	120
8	VESA	640x480@85Hz		43.269	85.008	N/N	RGB	Progressive	36	832	640	56	56	80
9	VGA	720x400@70Hz	720 × 400	31.469	70.087	N/P	RGB	Progressive	28.332	900	720	108	18	54
10	VESA	720x400@85Hz		37.927	85.039	N/P	RGB	Progressive	35.5	936	720	72	36	108
11	IO_DATA	852x480@60Hz	852 × 480	32	60	–	RGB	Progressive	34.304	1072	852	128	28	64
12	MATROX_S1	856x480@60Hz	856 × 480	30.24	60	N/N	RGB	Progressive	33.627	1112	856	104	48	104
13	MATROX_S2	856x480@60Hz		30.057	59.637	N/N	RGB	Progressive	31.5	1048	856	64	32	96
14	MATROX_S3	856x480@60Hz		30.057	60.115	N/N	RGB	Progressive	31.5	1048	856	64	32	96
15	VESA	800x600@56Hz	800 × 600	35.156	56.25	P/P	RGB	Progressive	36	1024	800	72	24	128
16	VESA	800x600@60Hz		37.879	60.317	P/P	RGB	Progressive	40	1056	800	128	40	88
17	VESA	800x600@72Hz		48.077	72.188	P/P	RGB	Progressive	50	1040	800	120	56	64
18	VESA	800x600@75Hz		46.875	75	P/P	RGB	Progressive	49.5	1056	800	80	16	160
19	VESA	800x600@85Hz		53.674	85.061	P/P	RGB	Progressive	56.25	1048	800	64	32	152
20	MAC	16inch	832 × 624	49.724	74.55	N/N	RGB	Progressive	57.285	1152	832	64	32	224
21	SPECIAL	1024x576@60Hz	1024 × 576	36.427	60.21	–	RGB	Progressive	48.375	1328	1024	128	48	128
22	VESA	1024x768@60Hz	1024 × 768	48.363	60.004	N/N	RGB	Progressive	65	1344	1024	136	24	160
23	VESA	1024x768@70Hz		56.476	70.069	N/N	RGB	Progressive	75	1328	1024	136	24	144
24	VESA	1024x768@75Hz		60.023	75.029	P/P	RGB	Progressive	78.75	1312	1024	96	16	176
25	VESA	1024x768@85Hz		68.677	84.997	P/P	RGB	Progressive	94.5	1376	1024	96	48	208
26	VESA	1152x864@75Hz	1152 × 864	67.5	75	P/P	RGB	Progressive	108	1600	1152	128	64	256
27	MAC	21inch	1152 × 870	68.681	75.061	N/N	RGB	Progressive	100	1456	1152	128	32	144
28	VESA	1280x960@60Hz	1280 × 960	60	60	P/P	RGB	Progressive	108	1800	1280	112	96	312
29	VESA	1280x960@85Hz		85.938	85.002	P/P	RGB	Progressive	148.5	1728	1280	160	64	224
30	VESA	1280x1024@60Hz	1280 × 1024	63.981	60.02	P/P	RGB	Progressive	108.5	1688	1280	112	48	248
31	SUN	1280x1024@67Hz		71.691	67.189	N/N	RGB	Progressive	117	1632	1280	112	16	224
32	VESA	1280x1024@75Hz		79.976	75.025	P/P	RGB	Progressive	135	1688	1280	144	16	248
33	SUN	1280x1024@76Hz		81.13	76.107	N/N	RGB	Progressive	135	1664	1280	64	32	288
34	VESA	1280x1024@85Hz		91.146	85.024	P/P	RGB	Progressive	157.5	1728	1280	160	64	224
35	VESA	1600x1200@60Hz	1600 × 1200	75	60	P/P	RGB	Progressive	162	2160	1600	192	64	304
36	PFM	852x480@60	852 × 480	31.469	60	P/N	RGB	Progressive	33.74	1072	852	124	32	64
37	PFM	1024x1024@60	1024 × 1024	67.5	60	P/N	RGB	Progressive	85.05	1260	1024	60	40	136
38	PFM	1280x768@56	1280 × 768	45	56	P/N	RGB	Progressive	77.04	1712	1280	92	80	260
39	VIDEO	525_60	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	135	51
40	VIDEO	625_50	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105

Vertical (line)					Clamp		Format Flag				Default Data		
Total	Act	Sync	FP	BP	Position	Width	Frame Lock	PLL Enable	Interlace	IP Convert	Pic Mode	MATRIX	ZOOM MODE
4491	350	2	37	60	62	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
445	350	3	32	60	36	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
445	400	3	1	41	36	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	60	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	3	3	39	39	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
520	480	3	9	28	29	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
500	480	3	1	16	41	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
509	480	3	1	25	24	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
449	400	2	12	35	61	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
446	400	3	1	42	37	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
529	480	3	12	34	60	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
504	480	3	1	20	56	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
504	480	3	1	20	37	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
500	480	8	1	11	37	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	600	2	1	22	39	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
628	600	4	1	23	53	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
666	600	6	37	23	35	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	600	3	1	21	32	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
631	600	3	1	27	21	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
667	624	3	3	37	27	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
605	576	3	1	25	47	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
806	768	6	3	29	36	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
806	768	6	3	29	29	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
800	768	3	1	28	20	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
808	768	3	1	36	17	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
900	864	3	1	32	21	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
915	870	3	3	39	17	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1000	960	3	1	36	21	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1011	960	3	1	47	15	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1066	1024	3	1	38	19	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1067	1024	8	2	33	15	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1066	1024	3	1	38	16	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1066	1024	8	2	32	7	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1072	1024	3	1	44	13	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1250	1200	3	1	46	18	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	59	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
1125	1024	5	48	48	8	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
804	768	7	3	26	26	8	OFF	ON	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	FULL
525	454	2	22	47	96	39	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	96	39	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL

Table 2. Factory Preset Data

	Format	Name	Resolution H(dot) × V(line)	fh [kHz]	fv [Hz]	H/V Sync Polarity	Signal Type	Scanning Format	Pixel Clock [MHz]	Horizontal (dot)				
										Total	Act	Sync	FP	BP
41	DTV	575/50p	720 × 575	31.25	50	SOG	YUV/RGB	Progressive	27	1000	750	60	54	136
42	DTV	480/60p	720 × 483	31.469	60	SOG	YUV/RGB	Progressive	27	968	750	63	55	100
43	DTV	1080/24psf	1920 × 1080	27	48	SOG	YUV/RGB	Interlace	74.25	2750	1820	44	662	224
44	DTV	1080/50i	1920 × 1080	28.125	50	SOG	YUV/RGB	Interlace	74.25	2640	1820	44	552	224
15	DTV	1080/60i	1920 × 1080	33.75	60	SOG	YUV/RGB	Interlace	74.25	2200	1820	44	112	224
46	DTV	1035/60i	1920 × 1035	33.75	60	SOG	YUV/RGB	Interlace	74.25	2200	1900	44	66	190
47	DTV	720/60p	1280 × 720	45	60	SOG	YUV/RGB	Progressive	74.25	1650	1216	40	117	277
48	SDTV	NTSC_TV	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
49	SDTV	NTSC_COMPOSITE	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
50	SDTV	PAL_COMPOSITE	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
51	SDTV	SECAM_COMPOSITE	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
52	SDTV	443NT_COMPOSITE	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
53	SDTV	PAL-M_COMPOSITE	720 × 575	15.734	60	SOG	YUV	Interlace	28.125	968	750	32	132	54
54	SDTV	PAL-N_COMPOSITE	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
55	SDTV	BW_COMPOSITE60	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
56	SDTV	BW_COMPOSITE50	720 × 483	15.625	50	SOG	YUV	Interlace	28.322	1000	750	32	113	105
57	SDTV	NTSC_YC	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
58	SDTV	PAL_YC	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
59	SDTV	SECAM_YC	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
60	SDTV	443NT_YC	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
61	SDTV	PAL-M_YC	720 × 575	15.734	60	SOG	YUV	Interlace	28.125	968	750	32	132	54
62	SDTV	PAL-N_YC	720 × 575	15.625	50	SOG	YUV	Interlace	28.125	1000	750	32	113	105
63	SDTV	BW_YC60	720 × 483	15.734	60	SOG	YUV	Interlace	28.322	968	750	32	132	54
64	SDTV	BW_YC50	720 × 483	15.625	50	SOG	YUV	Interlace	28.322	1000	750	32	113	105
65	SDTV	PAL60	720 × 483	15.734	59.94	SOG	YUV	Interlace	28.322	968	750	32	132	54
66		OTHERS	640 × 480	31.469	59.94	N/N	RGB	Progressive	25.175	800	640	96	16	48
67		NO_SYNC	640 × 480	31.469	59.94	N/N	RGB	Progressive	25.175	800	640	96	16	48

Vertical (line)					Clamp		Format Flag				Default Data		
Total	Act	Sync	FP	BP	Position	Width	Frame Lock	PLL Enable	Interlace	IP Convert	Pic Mode	MATRIX	ZOOM MODE
625	534	3	26	62	42	12	ON	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	6	22	43	38	12	ON	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
1125	1024	10	34	57	19	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
1125	1024	10	34	57	19	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
1125	1024	10	34	57	19	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
1125	1024	10	14	77	18	12	ON	OFF	ON	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
750	684	5	23	38	22	12	ON	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_274M	FULL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
625	534	2	27	62	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	454	2	24	45	30	58	ON	OFF	ON	ON	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	30	58	OFF	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL
525	480	2	10	33	64	16	OFF	OFF	OFF	OFF	STANDARD	MFID_IPC_MATRIX_293M	NORMAL

2-3. White Balance Adjustment

1. Enter the Service Mode as follows. Generate the built-in adjustment signal.
   Select [Service Mode] → [White Balance] → [Window], and select either [Small] or [Large].
2. Set the color temperature to [High] as follows.
   Select [Color Temp.] → [High].
3. Adjust white balance using the R, G and B gain adjustments as follows.
   Adjust white balance by adjusting [Red Gain], [Green Gain] and [Blue Gain] until color temperature satisfies the specification of 9300 K. During this adjustment, set [Green Gain] to 00 normally.
4. Set the color temperature to [Mid] as follows.
   Select [Color Temp.] → [Mid].
5. Adjust white balance using the R, G and B gain adjustments as follows.
   Adjust white balance by adjusting [Red Gain], [Green Gain] and [Blue Gain] until color temperature satisfies the specification of 6500 K. During this adjustment, set [Green Gain] to 00 normally.
6. Set the color temperature to [Low] as follows.
   Select [Color Temp.] → [Low].
7. Adjust white balance using the R, G and B gain adjustments as follows.
   Adjust white balance by adjusting [Red Gain], [Green Gain] and [Blue Gain] until color temperature satisfies the specification of 3200 K. During this adjustment, set [Green Gain] to 00 normally. However, if the white balance adjustment cannot be performed by all means, decrease the [Green Gain] until the specification is satisfied.

2-4. AD Calibration Adjustment

1. Adjustment Preparation

1) Set the [RGB Mode] of the Custom Setup menu to [PC].
2) Set [Cal Mode] of [AD Converter] of the Service Setup menu to [On].

2. AD Adjustment of RGB Input

1) Connect the RGB signal VGA (640 × 480 /60) all white 90 IRE to INPUT1.
2) Obtain the RGB balance by adjusting [Red Gain] and [Blue Gain] of [RGB Calibration] until the R detection value and the B detection value come very close to the G detection value.
3) Adjust [Sub Cont RGB] until the R, B and G detection values become the setup value. (Setup value = 230 ±3)
4) Set the RGB signal to the VGA (640 × 480 /60) all gray 20 IRE.
5) Adjust [Red Bias], [Green Bias] and [Blue Bias] until the R, B and G detection values become the setup value. (Setup value = 51 ±3)
6) Repeat the above steps 1) to 5) until all the adjustment values are satisfied at the same time.

3. AD Adjustment of Component Input

1) Set INPUT1 to the Component input.
2) Connect the component signal 1080/60i all white 90 IRE to INPUT1.
3) Adjust [Sub Cont YUV] of [YUV Calibration] until the G detection value becomes the setup value. (Setup value = 230 ±3)
4) Set the component signal to the 1080/60i all gray 20 IRE.
5) Adjust [Sub Brt YUV] until the G detection value becomes the setup value. (Setup value = 51 ±3)
6) Adjust [Cb Offset YUV] until the B detection value agrees with the G detection value.
7) Adjust [Cr Offset YUV] until the R detection value agrees with the G detection value.
8) Repeat the above steps 5) to 7) until all adjustment values are set to the setup value of step 5).
9) Repeat the above steps 2) to 8) until all adjustment values are set to the setup values of steps 3) and 5).

4. AD Adjustment of Video Input (When the Video Input connector is installed)

1) Set the INPUT to the Video input.
2) Connect the NTSC all white 90 IRE video signal to INPUT.
3) Adjust [Sub Cont Video] of [Video Calibration] until the G detection value becomes the setup value. (Setup value = 230 ±3)
4) Set the video signal to the NTSC all gray 20 IRE.
5) Adjust [Sub Brt Video] until the G detection value becomes the setup value. (Setup value = 51 ±3)

6) Adjust [Cb Offset Video] until the B detection value agrees with the G detection value.
7) Adjust [Cr Offset Video] until the R detection value agrees with the G detection value.
8) Repeat the above steps 5) to 7) until all adjustment values are set to the setup value of step 5).
9) Repeat the above steps 2) to 8) until all adjustment values are set to the setup values of steps 3) and 5).

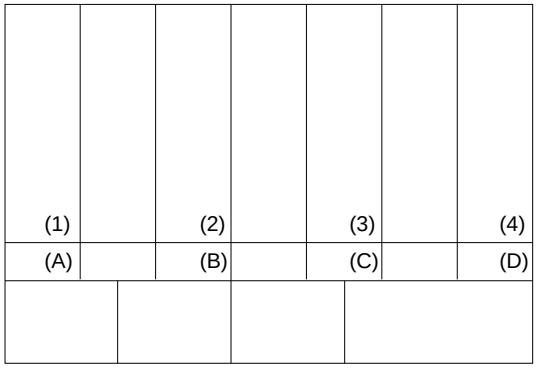
5. Set [Cal Mode] to [Off].

Note

The above described adjustment items 2, 3 and 4 must be performed while the picture quality mode User1 is in the standard condition.

2-5. Sub Color and Sub Hue Adjustments

1. Connect the NTSC SMPTE color bar signal to Video Input.



SMPTE color bars

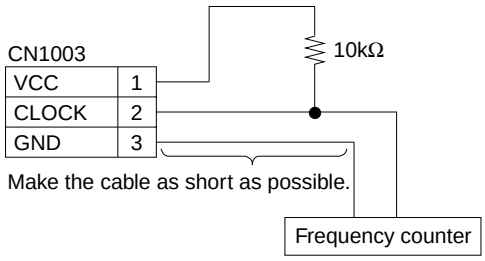
2. Set the picture quality setting User1 in the standard condition as follows.
   Select [Picture Mode] → [User1]. Then set [Reset] of [Adjust Picture] to [OK].
3. Enter the Service Mode and then select the Blue Only mode as follows.
   Select [Service Mode] → [General] → [Blue Only], and set [1].
4. While observing the screen display, adjust the NTSC Sub Color and Sub Hue as follows.
   Select [Service Mode] → [Chroma Decoder] → [Sub Color], and set [Col (NTSC)] to [6].
   Adjust [C Out Level] of [Chroma Decoder] until (1) has the same brightness as (A), and (4) has the same brightness as (D).
   Select [Hue] of [Chroma Decoder] and adjust [Hue (NTSC)] until (2) has the same brightness as (B), and (3) has the same brightness as (C).
   Repeat the above described adjustments until all the adjustment values are satisfied at the same time. (Tracking)
5. Connect the PAL SMPTE color signal to Video Input.
6. While observing the screen display, adjust the PAL Sub Color as follows.
   Select [Service Mode] → [Chroma Decoder] → [Sub Color].
   Adjust [Col (PAL)] of [Chroma Decoder] until (1) has the same brightness as (A), and (4) has the same brightness as (D).
7. Connect the SECAM SMPTE color signal to Video Input.
8. While observing the screen display, adjust the SECAM Sub Color as follows.
   Select [Service Mode] → [Chroma Decoder] → [Sub Color].
   Adjust [Col (SECAM)] of [Chroma Decoder] until (1) has the same brightness as (A), and (4) has the same brightness as (D).

2-6. Video Decoder Adjustment

1. Connect the SECAM all gray 30 IRE signal to Video Input.
2. Set [Cal Mode] of [AD Converter] of the Service Mode menu to [On].
3. Adjust [By Adj (SECAM)] of [Chroma Decoder] of the Service Mode menu until the Blue detection value has the same value as the Green value.
4. Adjust [Ry Adj (SECAM)] of [Chroma Decoder] of the Service Mode menu until the Red detection value has the same value as the Green value.
5. Repeat steps 3 and 4 until the detection values of R, G and B are within the range (±5 %) of tolerance error.
6. Set [Cal Mode] of [AD Converter] of the Service Mode menu to [Off].

2-7. Watch Error Adjustment

1. Select [32k Clock Out] in [General] of the Service Mode and set it to [On].
2. Connect a frequency counter as shown below and measure the frequency.

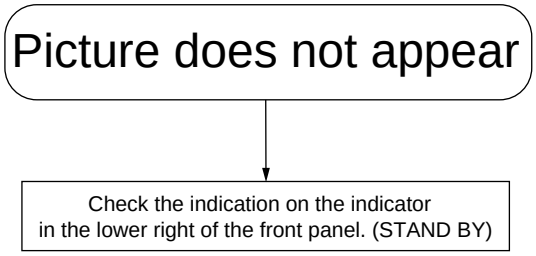


3. Select [Watch Error] in [General] of the Service Mode and enter the measurement result.
4. Select [32k Clock Out] in [General] of the Service Mode and set it to [Off].

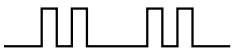
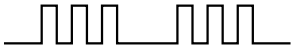
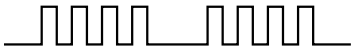
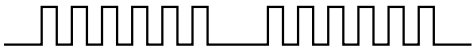
Section 3
Troubleshooting

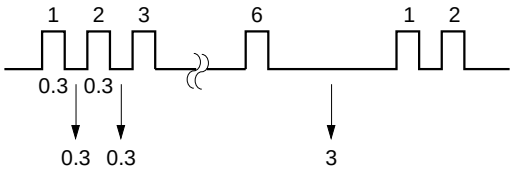
3-1. Judging Method When Image Does Not Appear

1. Flow chart



STBY LED flashes

	2 times	When error code is detected from panel.
	3 times	When temperature increases.
	4 times	When 5 V digital system power voltage decreases (2.5 V or less) or becomes excess voltage (6 V or more)
	5 times	When 3.3 V digital system power voltage decreases (1.6 V or less) or becomes excess voltage (4 V or more)
	6 times	When 6 V analog system power voltage decreases (3 V or less) or becomes excess voltage (7.2 V or more)



When the STBY LED does not flash, the power supply circuit is defective.

2. How to find PDP unit trouble

1) The power voltage for the PDP is supplied correctly.
The power voltages are supplied from the switching regulator board CN6, CN23, CN33, CN42 and CN52 to the PDP panel. The four types of power voltage that are 3.3 V, 5 V, 55 V and 80 V are supplied.

2) The input signal is supplied to the PDP panel correctly.
The LVDS signal is supplied to CN1 of the circuit board in the bottom of the PDP panel.
(CN1 pin-1, pin-3, pin-5, pin-7, pin-9, pin-11, pin-13, pin-15, pin-17 and pin-19)

If no images appears through the above conditions are satisfied, the PDP unit will be defective.

3-2. Self Diagnosis Function

3-2-1. Overview

The self-diagnosis function of this model detects abnormality by checking the power voltages, detecting temperature, detecting operation of fans and by checking EEPROM register and the watch timer using the A/D converter. When any abnormality is detected, the self-diagnosis function displays the abnormality by flashing the Standby indicator and displays the detected data on the service menu.
If the abnormal condition exceeds the allowable limit, it forcibly activates the shutdown operation.

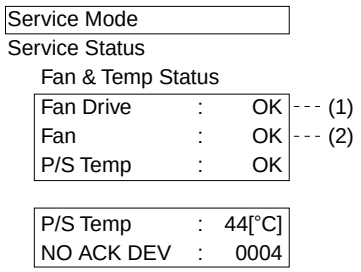
The self-diagnosis function detects operations of the following points.

1. Detecting stoppage of fans and detecting failure of the fan drive circuit
2. Detecting temperature increase of the power supply block and shutting it down
3. Detecting temperature increase at the center of the top of the PDP panel and shutting power supply down
4. Detecting temperature increase at the I/O block side of the top of the PDP panel and shutting power supply down
5. Detecting temperature increase at the left side of the PDP panel and shutting power supply down
6. Detecting the communication error with each device
7. Detecting the EEPROM error
8. Detecting decrease of the watch backup power voltage and detecting abnormal oscillation
9. Detecting PDP initialization error
10. Detecting chroma decoder initialization error
11. Detecting abnormal voltage of the internal power supply and shutting it down
12. Detecting abnormal power-off sequence

If any abnormality is detected, the Standby indicator flashes at the interval of 0.4 seconds continuously.
At the same time, the corresponding item shows the NG indication the service menu.
The NG indication is not reset and is accumulated unless the AC cord is disconnected.
If the abnormal condition exceeds the allowable limit, it forcibly activates the shutdown operation and picture will not be displayed any more.
At this time, the Standby indicator flashes to indicate that the PDP unit is in the error mode as shown in Section 3-1.

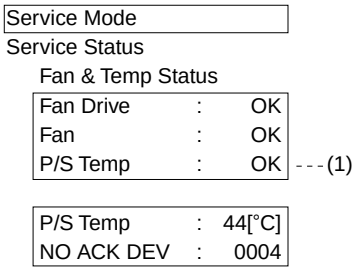
3-2-2. Abnormality Judgment Criterion

1. Detecting stoppage of fans and detecting failure of the fan drive circuit



(1) Fan Drive : If the fan drive circuit is defective, “NG” is displayed.
(2) Fan : If any of the four built-in fans stops its rotation, “NG” is displayed.

2. Detecting temperature increase of the power supply block and shutting it down



(1) P/S Temp : If temperature inside the power supply block exceeds 81°C, “NG” is displayed. If temperature exceeds 86°C, the shutting-down is activated.

3. Detecting temperature increase at the center of the top of the PDP panel and shutting it down

Service Mode
General
Fan Status

Fan Control	:	Auto
Ref Voltage	:	8.5[V]
F/B Voltage	:	8.5[V]
Drive Data		2B5F
P/S Temp	:	43[°C]
Center Temp	:	43[°C] --- (1)
I/O Block Temp	:	43[°C]
Left Temp	:	43[°C]

(1) Center Temp : The temperature that is measured by the S board installed in the top of the power supply board, is displayed. If temperature exceeds 69°C, the Standby indicator flashes at the interval of 0.4 seconds continuously. If temperature exceeds 74°C, the shutting-down is activated.

4. Detecting temperature increase at the I/O block side of the top of the PDP panel and shutting it down

Service Mode
General
Fan Status

Fan Control	:	Auto
Ref Voltage	:	8.5[V]
F/B Voltage	:	8.5[V]
Drive Data		2B5F
P/S Temp	:	43[°C]
Center Temp	:	43[°C]
I/O Block Temp	:	43[°C] --- (1)
Left Temp	:	43[°C]

(1) I/O Block Temp : The temperature that is measured by the S board installed in the top of the Q block assembly, is displayed. If temperature exceeds 61°C, the Standby indicator flashes at the interval of 0.4 seconds continuously. If temperature exceeds 66°C, the shutting-down is activated.

5. Detecting temperature increase at the left side of the PDP panel and shutting it down

Service Mode
General
Fan Status

Fan Control	:	Auto
Ref Voltage	:	8.5[V]
F/B Voltage	:	8.5[V]
Drive Data		2B5F
P/S Temp	:	43[°C]
Center Temp	:	43[°C]
I/O Block Temp	:	43[°C]
Left Temp	:	43[°C] --- (1)

(1) Left Temp : The temperature that is measured by the S board installed in the vicinity of the fan (large), is displayed. If temperature exceeds 67°C, the Standby indicator flashes at the interval of 0.4 seconds continuously. If temperature exceeds 72°C, the shutting-down is activated.

6. Detecting the communication error with each device

Service Mode
Service Status
Fan & Temp Status

Fan Drive	:	OK
Fan	:	OK
P/S Temp	:	OK

P/S Temp	:	44[°C]
NO ACK DEV	:	0004 --- (1)

(1) NO ACK DEV : It indicates if the communication with the respective devices that are controlled by the I^2C bus is correctly established or not.

Bit 0 : Audio Processor Each bit : 0 : OK 1 : NG
Bit 1 : Audio Switch
Bit 2 : AV Switch
Bit 3 : Closed Caption Decoder
Bit 4 : 3D Combfilter
Bit 5 : Chroma Decoder
Bit 6 : PDP
Bit 7 : Tuner (No Use for PFM)
Bit 8 : Auto Wide Decoder
Bit 9 : AD Converter
Bit 10 : EEP ROM
Bit 11 : IP Converter (System IC)
Bit 12 : OSD (No Use for PFM)
Bit 13 : PLD (No Use for PFM)
Bit 14 : RTC (No Use for PFM)
Bit 15 : Scan Converter (No Use for PFM)

Note

Because this model does not contain the AV switch, bit 2 always goes to 1 (high).
This function has the detection of the device containing error. It does not activate displaying the warning nor shutting-down operation.

7. Detecting the EEPROM error

Service Mode
Service Status
Warning Status

EEP ID	:	OK	--- (1)
EEP Save	:	OK	--- (2)
EEP Load	:	OK	--- (3)
RTC Init	:	OK	
RTC VDET	:	OK	
RTC XSTOP	:	OK	
PDP Init	:	OK	
DEC Init	:	OK	
DC Init	:	OK	
Power Off	:	OK	

If communication with EEPROM is not established correctly, the “NG” indication is displayed on the corresponding item.
(1) EEP ID : ID CODE error
(2) EEP Save : Data write error
(3) EEP Load : Data read error

8. Detecting decrease of the watch backup power voltage and detecting abnormal oscillation

Service Mode
Service Status
Warning Status

EEP ID	:	OK	
EEP Save	:	OK	
EEP Load	:	OK	
RTC Init	:	OK	--- (1)
RTC VDET	:	OK	--- (2)
RTC XSTOP	:	OK	--- (3)
PDP Init	:	OK	
DEC Init	:	OK	
DC Init	:	OK	
Power Off	:	OK	

If the watch IC does not work correctly, the “NG” indication is displayed on the corresponding item.
(1) RTC Init : Watch initialization error
(2) FTC VDET : Watch power voltage error (1.8 V or less)
(3) RTC XSTOP : Watch oscillator error

9. Detecting PDP initialization error

Service Mode
Service Status
Warning Status

EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK --- (1)
DEC Init	:	OK
DC Init	:	OK
Power Off	:	OK

(1) PDP Init : In the case of the PDP unit initialization error, the “NG” indication is displayed.

10. Detecting chroma decoder initialization error

Service Mode
Service Status
Warning Status

EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK --- (1)
DC Init	:	OK
Power Off	:	OK

(1) DEC Init : In the case of the chroma decoder unit initialization error, the “NG” indication is displayed.

11. Detecting abnormal voltage of the internal power supply and shutting power supply down

Service Mode
Service Status
Warning Status

EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK
DC Init	:	OK --- (1)
Power Off	:	OK

(1) DC Init : When the internal power supply (digital system 5 V, digital system 3.3 V or analog system 6 V) does not start up, the “NG” indication is displayed.
If any one of these power supplies does not start up, the shutting-down operation is activated and this indication is stored in log after the PDP unit returns to the normal operation.

12. Detecting abnormal power-off sequence

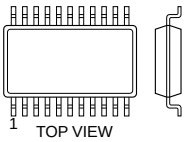
Service Mode
Service Status
Warning Status

EEP ID	:	OK
EEP Save	:	OK
EEP Load	:	OK
RTC Init	:	OK
RTC VDET	:	OK
RTC XSTOP	:	OK
PDP Init	:	OK
DEC Init	:	OK
DC Init	:	OK
Power Off	:	OK --- (1)

(1) Power Off : If the power-off sequence is not performed correctly, “NG” is displayed. Failure of the power supply block or failure of the PDP is suspected.

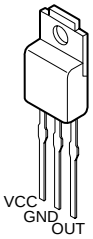
Section 4
Semiconductors

BA033F-E2
BA033FP
BA033FP-E2
BR24C21F-E2
CXA1211M
CXA1211M-T4
LM1881M
LM1881MX
M24C64-WMN6T(A)
NJM2903M
NJM2903M-T2
NJM4556AM-TE2
NJM4558E (TE2)
SI-3025LSA-TL
SN74CBTD3306PWR-12
TC4W53FU
TC4W53FU(TE12R)
TC7W126FU(TE12R)
TC7W14FU (TE12R)
TC7W241FU (TE12R)
TC7W241FU-TE12R
TC7WH125FU(TE12R)
UPC358G2-E2
UPC358G2-T2

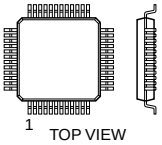


8pin SOP

BA05FP-E2
BA12FP-E2

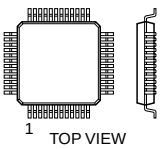


CXA2163Q-T6
MC141627FT



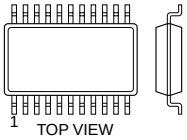
48pin QFP

CXA3516R



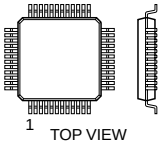
144pin QFP

CXD2057M-T6
MB90098APF-A-130-BND-ER
TEA6422DT



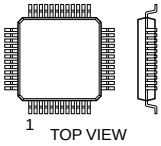
28pin SOP

CXD9606Q
XC2S50-5TQ144C



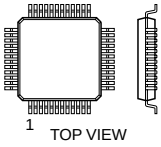
208pin QFP

HD64F2633TE



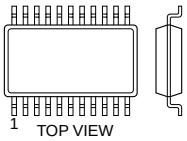
120pin QFP

IP00C713



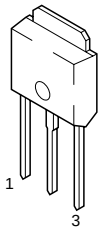
256pin QFP

K4S161622D-TC80
MSM56V16160D-10TS-K
MSM56V16160F-10TS-K

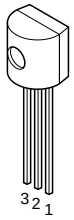


50pin SOP

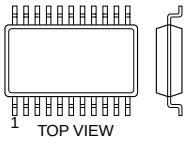
L88M05T-FA-TL



LM35DZ

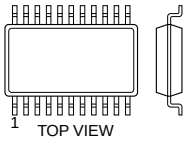


M52347FP-TE
TC74VHC541FT(EL)
TC74VHCT541AFT(EL)



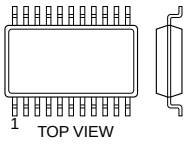
20pin SOP

M52758FP



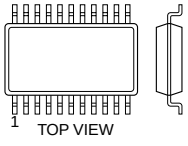
36pin SOP

MAX202CSE
MAX202CSE-T
MC74HC4052F
SN74LV4053APWR
TC74HC4052AF(EL)



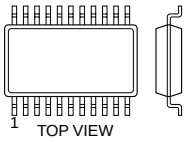
16pin SOP

MM74HC32MTCX
SN74HC32APWR
SN74LV123APWR
TC74HC125AF
TC74HC125AF(EL)
TC74VHCT14AFT(EL)
TK15452V



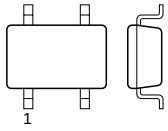
14pin SOP

RS5C348A-E2



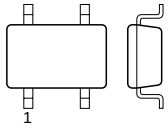
10pin SOP

S-80828ANNP-EDR-T2
S-80842ANNP-ED6-T2



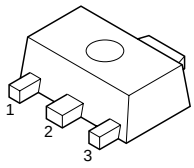
4pin CHIP

SC7S04F
TC7S04F(TE85R)
TC7S08FU(TE85R)
TC7S08FU-TE85R

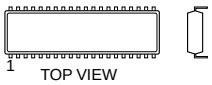


5pin CHIP

TA78M09F(TE16L)

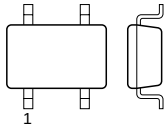


TA8776N



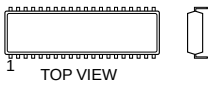
30pin DIP

TC7W125FU-TE12R



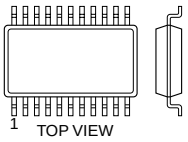
8pin CHIP

TDA7480



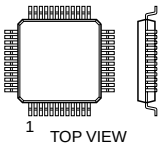
20pin DIP

THC63LVDM83R-T



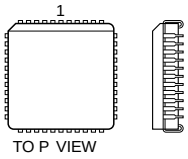
56pin SOP

UPD64083GF-3BA



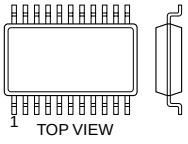
100pin QFP

XC18V01PC20C



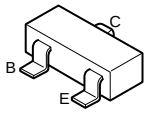
20pin QFJ

Z8622912SSC-00TR

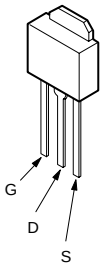


18pin SOP

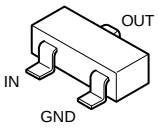
2SA1037AK-T146-R
2SA1162-G
2SA1462
2SA1462-T1Y33Y34
2SA1774R
2SA1774TL-QR
2SB709A-QRS-TX
2SC1623-L5L6
2SC2412K-T-146-QR
2SC4617R
2SC4617TL-QR
DTC144EE
DTC144EKA
DTC144EKA-T146



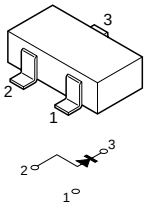
2SJ377(TE16L)



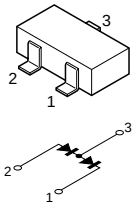
DTA144EE
DTA144EE-TL
DTC144EE-TL



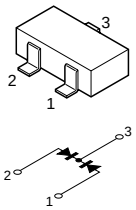
02CZ12-TE85L



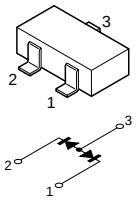
1SS226
MA157-TX
MA3130WA-TX



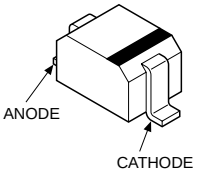
DAN202K
DAN202K-T-146



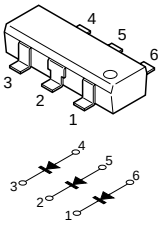
DAP222
DAP222-TL



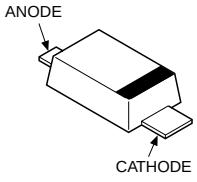
DTZ10B
MA111-(K8).S0
MA111-TX
MA113-(TX)
MA113-TX
RD5.6SB-T1



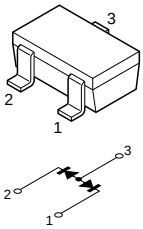
HN1D03FU-TE85L
HN1D03FU-TE85R



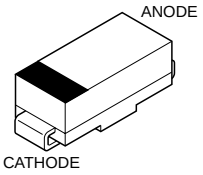
MA2S111-(K8)
UDZS-TE17-12B
UDZSTE-1710B
UDZSTE-174.7B
UDZSTE-175.6B



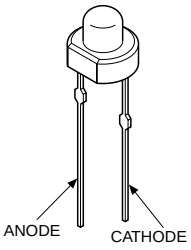
MA3075WA-(TX)



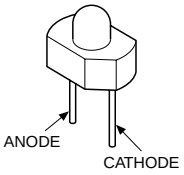
NSQ03A06-TE16L



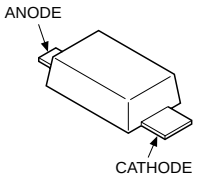
SLR-325MCT31



SLR-325VCT31



UDZS-TE17-5.6B



Section 5
Spare Parts

5-1. Notes on Repair Parts

1. Safety Related Components Warning

WARNING

Components marked ⚠ are critical to safe operation. Therefore, specified parts should be used in the case of replacement.

WARNHINWEIS

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

2. Standardization of Parts

Some repair parts supplied by Sony differ from those used for the unit. These are because of parts commonality and improvement.
Parts List has the present standardized repair parts.

3. Stock of Parts

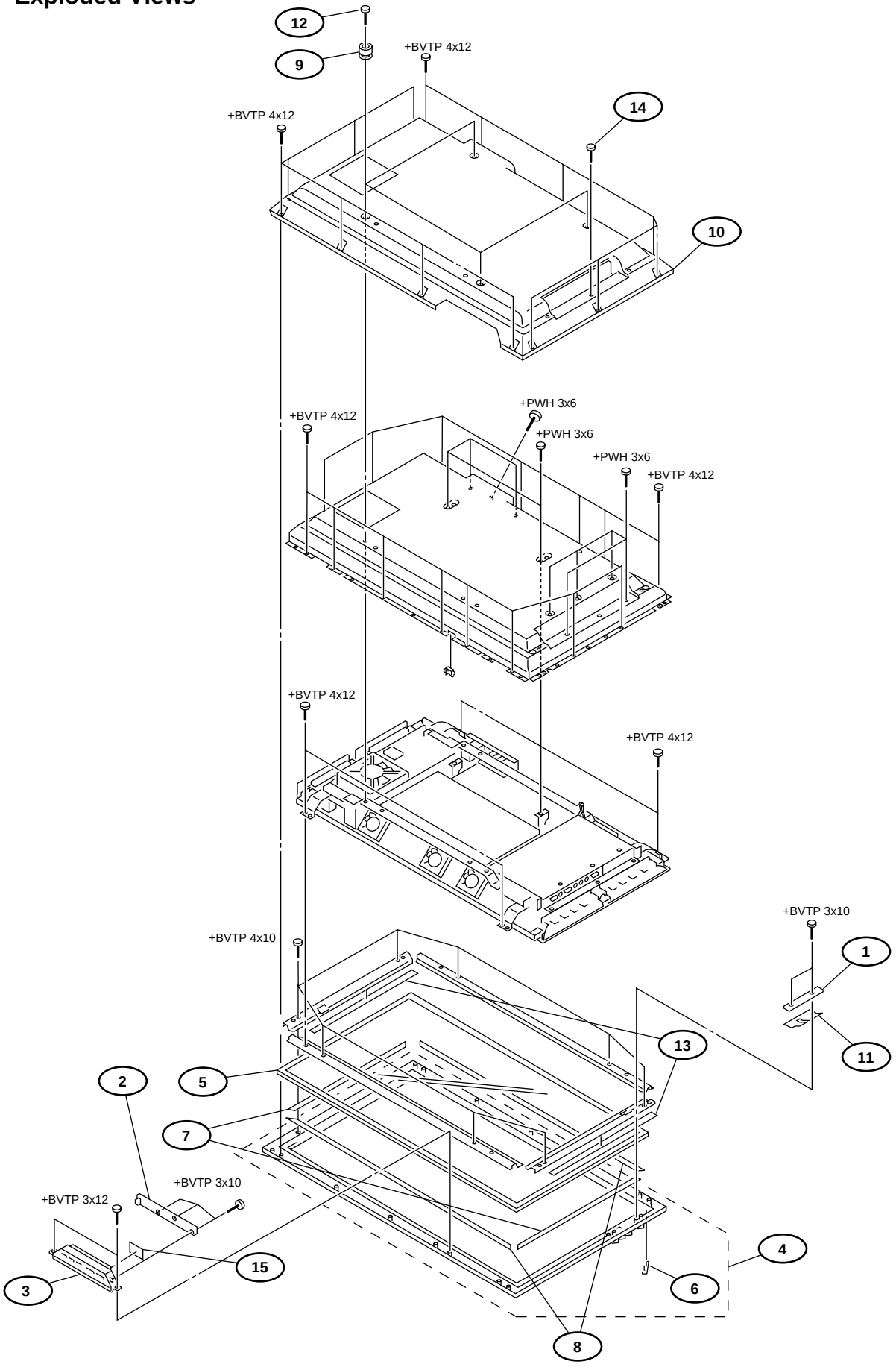
Parts marked with “o” at SP (Supply Code) column of the Spare Parts list may not be stocked. Therefore, the delivery date will be delayed.
Items with no part number and no description are not stocked because they are seldom required for routine service.

4. Units for Capacitors, Inductors and Resistors

The following units are assumed in Schematic Diagrams, Electrical Parts List and Exploded Views unless otherwise specified.

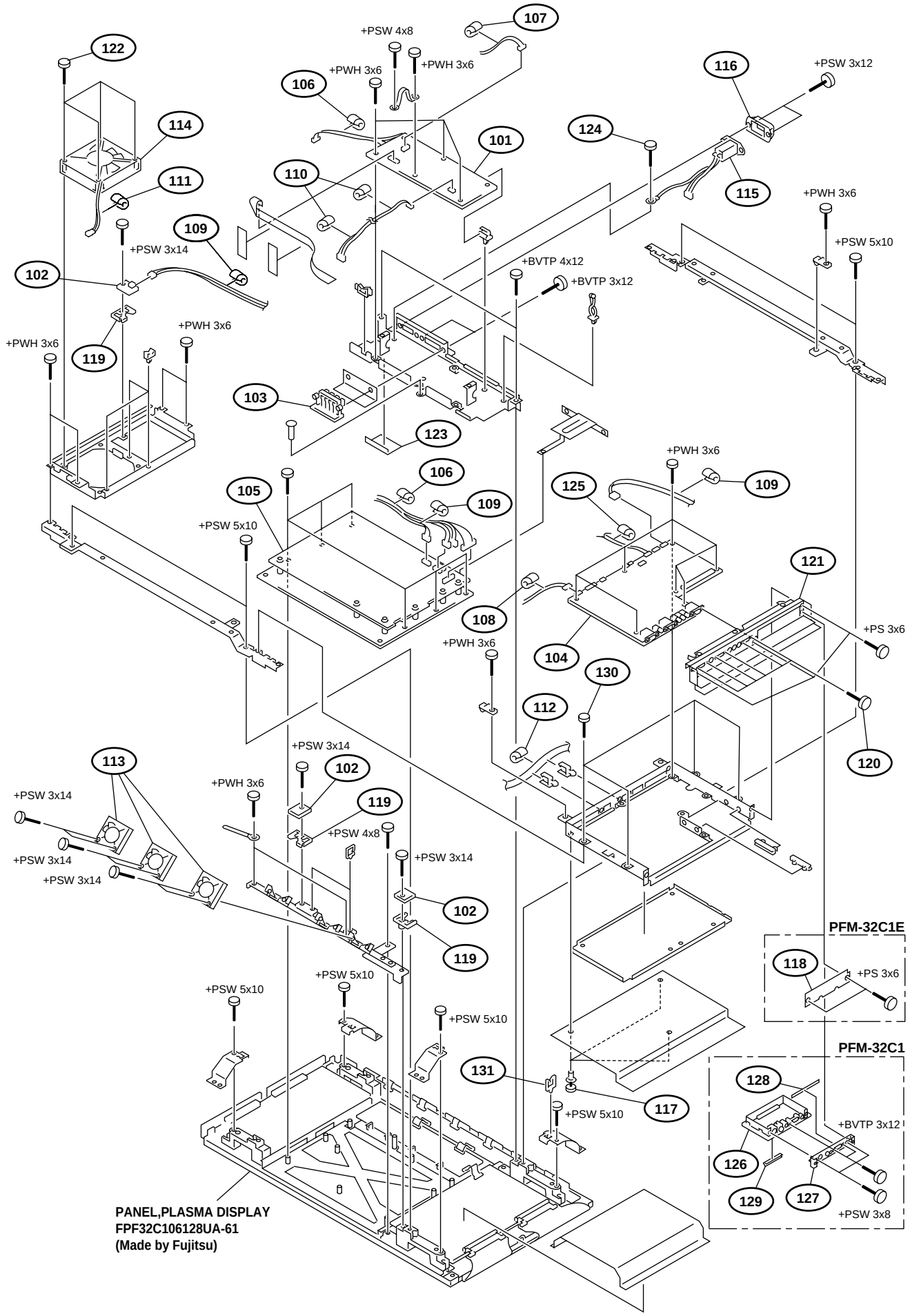
Capacitors : µF
Inductors : µH
Resistors : Ω
40001 and higher for CE

5-2. Exploded Views



No.	Part No.	SP	Description
1	8-330-030-57	s	MOUNTED CIRCUIT BOARD, H1
2	8-330-030-60	s	MOUNTED CIRCUIT BOARD, H2
3	X-4040-029-2	s	ASSY, CONTROL PANEL
4	X-4040-030-2	s	BEZEL ASSY
5	1-758-732-21	s	GLASS, OPTICAL FILTER
6	3-704-176-61	s	EMBLEM, NO.6 SONY
7	4-080-965-21	o	GASKET (1X7)
8	4-080-965-31	o	GASKET (1X7)
9	4-087-733-02	o	KNOB
10	4-087-744-02	o	COVER, REAR
11	4-087-840-01	o	INSULATED PLATE
12	4-087-918-01	s	SCREW +PSW 5X20
13	4-088-041-01	s	DUST PROTECTION SHEET
14	4-089-037-01	s	SCREW +PWH M3X12(EG-GRIP)
15	4-641-838-01	s	CUSHION(SP)(FAB-NW+PSA)
Screws/Washers			
	7-682-903-11	s	SCREW +PWH 3X6
	7-685-647-11	s	SCREW +BVTP 3X10(EP-FE/ZNBK/CM2)
	7-685-648-79	s	SCREW +BVTP 3X12(EP-FE/ZNBK/CM2)
	7-685-660-11	s	SCREW +BVTP 4X10(EP-FE/ZN/CM2)
	7-685-661-19	s	SCREW +BVTP 4X12(EP-FE/ZNBK/CM2)

Chassis

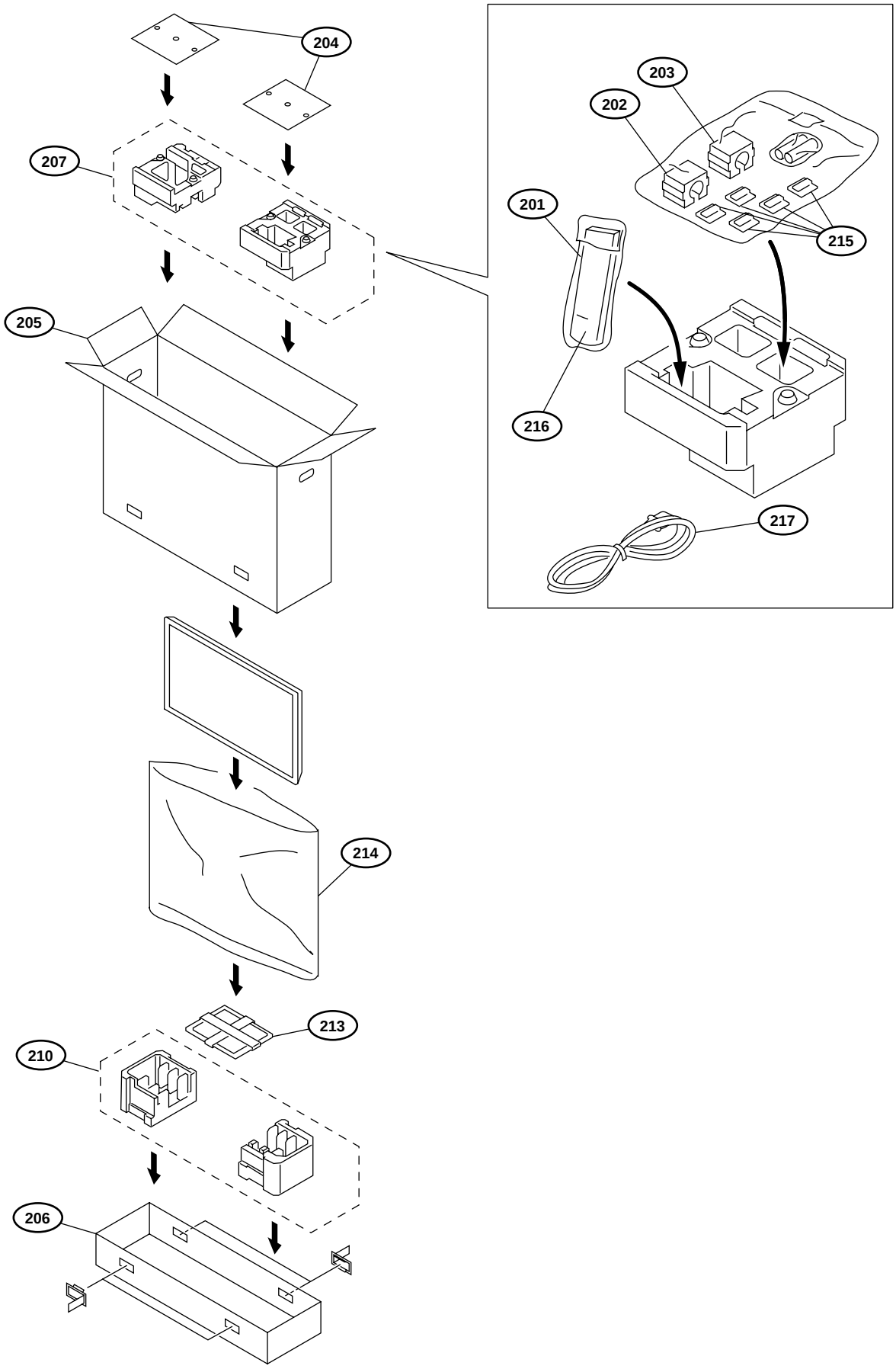

107
+PSW 4x8
122
+PWH 3x6
+PWH 3x6
106
116
+PSW 3x12
114
101
124
110
111
115
+PWH 3x6
109
+PSW 3x14
+PSW 5x10
102
+BVTP 4x12
+BVTP 3x12
+PWH 3x6
+PWH 3x6
119
103
123
+PWH 3x6
106
105
109
125
109
+PSW 5x10
121
108
+PS 3x6
+PWH 3x6
104
130
112
120
+PSW 3x14
113
102
+PWH 3x6
+PSW 3x14
119
+PSW 4x8
+PSW 3x14
+PSW 3x14
+PSW 3x14
102
119
PFM-32C1E
118
+PS 3x6
+PSW 5x10
+PSW 5x10
+PSW 5x10
PFM-32C1
131
128
117
+PSW 5x10
+BVTP 3x12
126
129
127
+PSW 3x8
PANEL,PLASMA DISPLAY
FPF32C106128UA-61
(Made by Fujitsu)

No.	Part No.	SP	Description
101	8-330-030-58	s	MOUNTED CIRCUIT BOARD, B
102	8-330-030-56	s	MOUNTED CIRCUIT BOARD, S
103	8-330-030-59	s	MOUNTED CIRCUIT BOARD, SP
104	8-330-030-61	s	MOUNTED CIRCUIT BOARD, Q
105 ⚠	1-468-658-21	s	REGULATOR, SWITCHING
106	1-469-241-11	s	CORE, FERRITE(RFC-8 BK)
107	1-469-778-11	o	CLAMP, FERRITE
108	1-469-969-11	s	CLAMP, FERRITE
109	1-500-051-11	s	BEAD, FERRITE(WITH CASE)
110	1-543-993-11	s	CORE, FERRITE
111	1-500-459-11	s	FERRITE, CLAMP(FERRITE CORE)
112	1-543-653-11	s	CORE ASSY, BEAD
113	1-763-659-11	s	FAN, DC
114	1-763-822-11	s	FAN, DC
115 ⚠	1-816-545-11	s	INLET, AC(WITH NOISE FILTER)
116	2-990-241-02	s	HOLDER (A), PLUG
117	4-049-122-01	s	RIVET (PP)
118	4-080-962-02	o	PANEL, BLANK (PFM-32C1E)
119	4-081-421-01	o	BRACKET, S PWB
120	4-083-966-01	s	SCREW, HEXAGON
121	4-087-748-02	o	PANEL, Q
122	4-087-861-01	s	SCREW +B M3X30(EG-GRIP)
123	4-088-056-01	o	PROTECTION PLATE
124	4-389-025-01	s	SCREW (M4)(EXT TOOGH WASHER)
125	1-500-455-11	s	CORE, FERRITE
126	A-1270-443-A	o	MOUNTED CIRCUIT BOARD, QA (PFM-32C1)
127	X-4038-605-1	o	PANEL ASSY, QA (PFM-32C1)
128	4-082-873-01	o	GASKET (2X4) (PFM-32C1)
129	4-082-874-01	o	GASKET (L TYPE) (PFM-32C1)
130	3-961-055-01	s	SCREW(3X8)(EXT HOOTH)
131	3-972-239-01	s	CLAMP,MINIATURE

Screws/Washers

	7-682-647-01	s	SCREW +PS 3X6(EP-FE/ZNBK/CM2)
	7-682-903-11	s	SCREW +PWH 3X6
	7-682-950-09	s	SCREW +PSW 3X12(EP-FE/ZNBK/CM2)
	7-682-951-01	s	SCREW +PSW 3X14(EP-FE/ZN/CM2)
	7-682-961-01	s	SCREW +PSW 4X8
	7-682-973-19	o	SCREW PSW 5X10
	7-685-648-79	s	SCREW +BVTP 3X12(EP-FE/ZNBK/CM2)
	7-685-661-19	s	SCREW +BVTP 4X12(EP-FE/ZNBK/CM2)
	7-682-948-09	s	SCREW +PSW 3X8

Packing Group



No.	Part No.	SP	Description
201	1-477-278-12	s	REMOTE COMMANDER(RM-971)
202	2-990-242-01	s	HOLDER (B), PLUG (BLACK)
203	3-613-640-01	o	HOLDER (C), PLUG (BROWN)
204	4-080-653-01	o	HOLDER
205	4-090-021-01	o	INDIVIDUAL CARTON (PFM-32C1)
205	4-086-357-02	o	INDIVIDUAL CARTON (PFM-32C1E)
206	4-086-358-01	o	TRAY
207	4-086-359-01	o	CUSHION (UPPER ASSY)
210	4-086-360-01	o	CUSHION (LOWER ASSY)
213	4-087-731-01	s	OPERATING, INSTRUCTIONS (JAPANESE, ENGLISH, FRENCH, SPANISH, GERMAN, ITALIAN, SIMPLIFIED CHINESE, KOREAN)
214	4-087-818-03	s	PROTECTION BAG
215	4-088-028-01	o	HOLDER
216	4-978-977-01	s	LID, BATTERY CASE
217	⚠ ————————		CORD, POWER (See Section1.1-2-10. Power Cord.)

5-3. Electrical Parts List

B BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	8-330-030-58	s	MOUNTED CIRCUIT BOARD, B
1pc	1-756-157-11	s	BATTERY, LITHIUM (CR-1220)
BAT500	1-756-156-11	o	HOLDER, BATTERY
C1	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C2	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C3	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C5	1-107-823-11	s	CAPACITOR,CERAMIC 0.47MF/16V
C6	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C7	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C8	1-125-889-11	s	CAPACITOR, C.CERAMIC 2.2MF
C9	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C10	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C11	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C12	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C13	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C14	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C15	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C16	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C17	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C18	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C19	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C20	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C21	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C22	1-115-467-11	s	CAPACITOR CERAMIC 0.22MF/10V B
C23	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C24	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C25	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C26	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C27	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C28	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C29	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C30	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C31	1-164-489-11	s	CAPACITOR,CHIP CERAMIC 0.22MF
C32	1-164-489-11	s	CAPACITOR,CHIP CERAMIC 0.22MF
C33	1-164-489-11	s	CAPACITOR,CHIP CERAMIC 0.22MF
C34	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C35	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C36	1-127-760-11	s	CAPACITOR,CERAMIC 4.7MF/6.3V
C37	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C38	1-164-344-11	s	CAPACITOR CERAMIC 68000PF (M-)
C39	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C40	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C41	1-162-969-11	s	CAPACITOR,CERAMIC 6800PF/25V B
C42	1-162-928-11	s	CAPACITOR,CERAMIC 120PF/50V CH
C43	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C44	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C45	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C46	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C47	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C48	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C49	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C50	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C51	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C52	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C53	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C54	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C55	1-163-233-91	s	CAPACITOR,CHIP CERAMIC 18PF/50
C56	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C57	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C58	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C59	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C60	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C61	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C62	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C63	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C64	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C65	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C66	1-162-917-11	s	CAPACITOR,CERAMIC 15PF/50V CH
C67	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C68	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C69	1-128-361-11	s	CAPACITOR ELECT 470MF/10V CHIP
C70	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C71	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C72	1-128-400-11	s	CAPACITOR, ELECT 47MF/25V
C74	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C75	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C76	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C77	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
C78	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C79	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C80	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C82	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C83	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C84	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C202	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C204	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C206	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C207	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C208	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C209	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C210	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C211	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C212	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C216	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C218	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C220	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C221	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C222	1-162-975-11	s	CAPACITOR,CERAMIC 24PF/50V CH
C223	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C224	1-162-975-11	s	CAPACITOR,CERAMIC 24PF/50V CH
C225	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C226	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C227	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C228	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C229	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C230	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C231	1-165-872-11	s	CAPACITOR,CHIP ELECT47MF/6.3V
C232	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C233	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C234	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C235	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C236	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C237	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C238	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C239	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C240	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C241	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C242	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C243	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C244	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C245	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C247	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C249	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C250	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C251	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C252	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C253	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C254	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C255	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C256	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C257	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C258	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C259	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C260	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C261	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C262	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C263	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C264	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C265	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C266	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C270	1-131-661-11	s	CAPACITOR,ELECT 100MF/10V CHIP
C271	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C272	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C273	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C274	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C275	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C276	1-126-391-11	s	CAPACITOR, CHIP ELECT 47MF/6.3V
C401	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C402	1-162-959-11	s	CAPACITOR,CERAMIC 330PF/50V SL
C403	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C404	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C405	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C406	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C407	1-110-501-11	s	CAPACITOR CERAMIC 0.33MF/16V
C408	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C409	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C410	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C411	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C412	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C413	1-125-898-11	s	CAPACITOR, CERAMIC 0.22MF 50V
C414	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C415	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C416	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C417	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C418	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C419	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C420	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C421	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C422	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C423	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C424	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C425	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C426	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C427	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C428	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C429	1-115-670-11	s	CAPACITOR ELECT 220MF/35V(CHIP
C431	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C432	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C433	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C434	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C435	1-109-982-11	s	CAPACITOR,CHIP CERAMIC 1MF/10V
C436	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C437	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C438	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C439	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C440	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C441	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C442	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C443	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C444	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C445	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C446	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C447	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C448	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C449	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C450	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C451	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C452	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C453	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C454	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C455	1-126-394-11	s	CAPACITOR,ELECT 10MF/16V(CHIP)
C456	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C457	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C458	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C459	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C460	1-164-230-11	s	CAPACITOR,CERAMIC 220PF/50V
C461	1-162-919-11	s	CAPACITOR,CERAMIC 22PF/50V CH
C462	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C463	1-128-361-11	s	CAPACITOR ELECT 470MF/10V CHIP
C464	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C465	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C466	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C467	1-164-227-11	s	CAPACITOR,CERAMIC 0.022MF/25V
C468	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C604	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C605	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C606	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C607	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C608	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C609	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C610	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C611	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C612	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C613	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C614	1-128-360-11	s	CAPACITOR,ELECT 220MF/10V CHIP
C615	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C616	1-128-304-11	s	CAPACITOR, CHIP ELECT 330MF
C617	1-128-304-11	s	CAPACITOR, CHIP ELECT 330MF
C618	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C619	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C620	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C621	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C624	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C625	1-128-360-11	s	CAPACITOR,ELECT 220MF/10V CHIP
C626	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C627	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C628	1-115-412-11	s	CAPACITOR,CERAMIC 680PF/25V CH
C629	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C630	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C801	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C802	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C803	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C804	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C805	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C806	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C807	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C808	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C809	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C810	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C811	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C812	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C813	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C814	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C815	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C816	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C817	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C818	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C819	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C820	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C821	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C822	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C823	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C824	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C825	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C826	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C827	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C828	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C829	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C830	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C831	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C832	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C833	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C834	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C835	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C836	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C837	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C838	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C839	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C840	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C841	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C842	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C843	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C844	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C845	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C846	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C847	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C848	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C849	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C850	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C851	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C852	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C853	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1001	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1002	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1003	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1004	1-107-826-11	s	CAPACITOR, CHIP CERAMIC 0.1MF
C1005	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1007	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1008	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1009	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1010	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1011	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1012	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1013	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1014	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1015	1-125-889-11	s	CAPACITOR, C.CERAMIC 2.2MF
C1016	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C1017	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1018	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1019	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1020	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
C1021	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1022	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1023	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C1024	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1025	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1026	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1027	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1028	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1029	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1030	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1031	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1032	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C1033	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1034	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1035	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1036	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1037	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1038	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1039	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1040	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C1042	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1043	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1044	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1045	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1046	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1047	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1048	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1049	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1050	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1051	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1052	1-125-889-11	s	CAPACITOR, C.CERAMIC 2.2MF
C1053	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1054	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1055	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1056	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1202	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C1204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1206	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1207	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1208	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1209	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1210	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1211	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1212	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1213	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1214	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1215	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1216	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1217	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1218	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1219	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1220	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1221	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1222	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1223	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1224	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1225	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1226	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1227	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1228	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1229	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1230	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1231	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1232	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1233	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1234	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1235	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1236	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1237	1-126-391-11	s	CAPACITOR ELECT 47MF/6.3V(105)
C1238	1-164-315-11	s	CAPACITOR,CERAMIC 470PF/50V CH
C1239	1-107-682-11	s	CAPACITOR,CHIP 1MF/16V (3216)
C1240	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C1241	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
CN101	1-695-209-21	s	PIN, CONNECTOR (PC BOARD) 15P
CN102	1-764-082-21	s	PIN, CONNECTOR (PC BOARD) 11P
CN103	1-764-081-21	s	PIN, CONNECTOR (PC BOARD) 9P
CN401	1-695-889-21	s	PIN, CONNECTOR (PC BOARD) 10P
CN1001	1-779-339-21	s	CONNECTOR, FFC/FPC 30P
CN1002	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN1003	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
CN1004	1-764-078-11	s	PIN, CONNECTOR (PC BOARD) 3P
CN1005	1-750-635-21	o	PIN, CONNECTOR (PC BOARD) 5P
CN1201	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN1203	1-764-093-21	o	PIN, CONNECTOR (PC BOARD) 8P
CN1204	1-764-097-11	o	PIN, CONNECTOR (PC BOARD) 12P
D1	8-719-056-23	s	DIODE MA2S111-(K8)
D401	8-719-056-23	s	DIODE MA2S111-(K8)
D402	8-719-914-43	s	DIODE DAN202K
D403	8-719-914-43	s	DIODE DAN202K
D1002	8-719-056-23	s	DIODE MA2S111-(K8)
D1003	8-719-056-23	s	DIODE MA2S111-(K8)
D1004	8-719-024-77	s	DIODE HN1D03FU-TE85L
D1005	8-719-056-23	s	DIODE MA2S111-(K8)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D1006	8-719-056-23	s	DIODE MA2S111-(K8)
D1007	8-719-421-59	s	DIODE MA3130WA-TX
FB401	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB801	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB802	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB1201	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB1202	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB1203	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB1204	1-414-921-11	s	INDUCTOR, FERRITE BEAD
FB1205	1-400-179-21	s	INDUCTOR, EMI FERRITE (1608)
FB1206	1-400-179-21	s	INDUCTOR, EMI FERRITE (1608)
FB1207	1-216-864-11	s	CONDUCTOR, CHIP (1608)
FL1	1-233-505-21	s	FILTER, LOW PASS
FL2	1-233-505-21	s	FILTER, LOW PASS
FL3	1-233-505-21	s	FILTER, LOW PASS
FL400	1-239-558-11	s	FILTER, CHIP EMI
IC1	8-759-443-08	s	IC TC7W241FU (TE12R)
IC2	8-752-107-30	s	IC CXA2163AQ-T6
IC3	8-759-082-61	s	IC TC4W53FU
IC4	8-759-638-04	s	IC Z8622912SSC-00TR
IC5	8-752-053-21	s	IC CXA1211M
IC6	8-752-390-35	s	IC CXD2057M-T6
IC7	8-759-533-85	s	IC L88M05T-FA-TL
IC201	8-749-018-41	s	IC SI-3025LSA-TL
IC202	8-749-018-41	s	IC SI-3025LSA-TL
IC204	8-759-031-84	s	IC SC7S04F
IC205	8-759-436-89	s	IC MC141627FT
IC206	6-700-960-01	s	IC UPD64083GF-3BA
IC207	8-759-987-27	s	IC LM1881M
IC208	8-759-082-61	s	IC TC4W53FU
IC209	8-759-082-61	s	IC TC4W53FU
IC401	8-759-533-85	s	IC L88M05T-FA-TL
IC402	8-759-460-72	s	IC BA033FP
IC403	8-752-095-84	s	IC CXA3516R
IC404	8-759-646-02	s	IC M52347FP-TE
IC405	8-759-596-34	s	IC SN74LV4053APWR
IC406	8-759-058-62	s	IC TC7S08FU-TE85R
IC601	8-759-837-36	s	IC CXD9606Q
IC603	8-759-676-70	s	IC MSM56V16160F-10TS-K
IC604	8-759-549-00	s	IC SN74LV123APWR
IC801	6-700-681-01	s	IC IP00C713
IC802	8-759-573-19	s	IC MSM56V16160D-10TS-K
IC803	8-759-573-19	s	IC MSM56V16160D-10TS-K
IC804	8-759-573-19	s	IC MSM56V16160D-10TS-K
IC1003	8-759-560-17	s	IC RS5C348A-E2
IC1004	8-759-648-10	s	IC HD64F2633TE
IC1005	8-759-544-01	s	IC S-80828ANNP-EDR-T2
IC1006	8-759-058-62	s	IC TC7S08FU-TE85R
IC1007	8-759-684-72	s	IC M24C64-WMN6T(A)
IC1009	8-759-443-08	s	IC TC7W241FU (TE12R)
IC1010	8-759-524-50	s	IC TC74VHC541FT(EL)
IC1011	8-759-490-41	s	IC TC74VHCT541AFT(EL)
IC1012	8-759-599-01	s	IC TC74VHCT14AFT(EL)
IC1015	8-759-669-50	s	IC SN74CBTD3306PWR-12
IC1016	8-759-277-63	s	IC TC7W14FU (TE12R)
IC1017	8-759-652-56	s	IC BA033F-E2
IC1018	8-759-497-44	s	IC TC7WH125FU(TE12R)
IC1019	8-759-669-50	s	IC SN74CBTD3306PWR-12

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
IC1020	8-759-582-91	s	IC S-80842ANNP-ED6-T2
IC1201	6-700-750-01	s	IC XC18V01PC20C
IC1202	8-749-018-41	s	IC SI-3025LSA-TL
IC1203	6-700-751-01	s	IC XC2S50-5TQ144C
IC1204	6-701-098-11	s	IC THC63LVDM83R-T
IC1205	6-700-683-01	s	IC MB90098APF-A-130-BND-ER
L1	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L2	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L3	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L4	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L5	1-412-058-11	s	INDUCTOR,SMALL TYPE 10UH
L6	1-412-058-11	s	INDUCTOR,SMALL TYPE 10UH
L7	1-412-058-11	s	INDUCTOR,SMALL TYPE 10UH
L8	1-412-061-11	s	INDUCTOR (SMALL TYPE) 33UH
L201	1-419-098-21	s	INDUCTORS (POWER)
L202	1-412-063-21	s	INDUCTOR, SMALL TYPE 68UH
L204	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L205	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L207	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L208	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L401	1-412-052-21	s	INDUCTOR, SMALL TYPE 1.00UH
L601	1-412-058-11	s	INDUCTOR,SMALL TYPE 10UH
L602	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L603	1-412-058-11	s	INDUCTOR,SMALL TYPE 10UH
L604	1-412-030-11	s	INDUCTOR,CHIP 22UH (3225)
L801	1-500-451-11	s	MICRO INDUCTOR (CHIP) 41P750S
Q1	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q2	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q3	8-729-927-99	s	TRANSISTOR 2SC4617R
Q4	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q5	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q6	8-729-927-99	s	TRANSISTOR 2SC4617R
Q7	8-729-928-81	s	TRANSISTOR DTC144EE
Q8	8-729-927-99	s	TRANSISTOR 2SC4617R
Q9	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q10	8-729-927-99	s	TRANSISTOR 2SC4617R
Q11	8-729-927-99	s	TRANSISTOR 2SC4617R
Q12	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q13	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q14	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q15	8-729-928-19	s	TRANSISTOR 2SA1774R
Q16	8-729-928-19	s	TRANSISTOR 2SA1774R
Q17	8-729-927-99	s	TRANSISTOR 2SC4617R
Q18	8-729-928-81	s	TRANSISTOR DTC144EE
Q19	8-729-928-19	s	TRANSISTOR 2SA1774R
Q20	8-729-927-99	s	TRANSISTOR 2SC4617R
Q21	8-729-927-99	s	TRANSISTOR 2SC4617R
Q22	8-729-927-99	s	TRANSISTOR 2SC4617R
Q23	8-729-927-99	s	TRANSISTOR 2SC4617R
Q24	8-729-927-99	s	TRANSISTOR 2SC4617R
Q25	8-729-927-99	s	TRANSISTOR 2SC4617R
Q26	8-729-927-99	s	TRANSISTOR 2SC4617R
Q27	8-729-928-19	s	TRANSISTOR 2SA1774R
Q28	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q29	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q30	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q31	8-729-112-65	s	TRANSISTOR 2SA1462
Q32	8-729-112-65	s	TRANSISTOR 2SA1462

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
Q33	8-729-112-65	s	TRANSISTOR 2SA1462
Q35	8-729-928-81	s	TRANSISTOR DTC144EE
Q201	8-729-928-19	s	TRANSISTOR 2SA1774R
Q203	8-729-928-19	s	TRANSISTOR 2SA1774R
Q204	8-729-927-99	s	TRANSISTOR 2SC4617R
Q205	8-729-928-19	s	TRANSISTOR 2SA1774R
Q206	8-729-927-99	s	TRANSISTOR 2SC4617R
Q207	8-729-927-99	s	TRANSISTOR 2SC4617R
Q208	8-729-927-99	s	TRANSISTOR 2SC4617R
Q209	8-729-928-19	s	TRANSISTOR 2SA1774R
Q210	8-729-927-99	s	TRANSISTOR 2SC4617R
Q211	8-729-928-19	s	TRANSISTOR 2SA1774R
Q212	8-729-927-99	s	TRANSISTOR 2SC4617R
Q213	8-729-928-19	s	TRANSISTOR 2SA1774R
Q214	8-729-928-81	s	TRANSISTOR DTC144EE
Q215	8-729-927-99	s	TRANSISTOR 2SC4617R
Q216	8-729-927-99	s	TRANSISTOR 2SC4617R
Q217	8-729-928-19	s	TRANSISTOR 2SA1774R
Q218	8-729-928-19	s	TRANSISTOR 2SA1774R
Q401	8-729-928-19	s	TRANSISTOR 2SA1774R
Q402	8-729-927-99	s	TRANSISTOR 2SC4617R
Q403	8-729-927-99	s	TRANSISTOR 2SC4617R
Q404	8-729-928-81	s	TRANSISTOR DTC144EE
Q405	8-729-928-81	s	TRANSISTOR DTC144EE
Q406	8-729-928-81	s	TRANSISTOR DTC144EE
Q407	8-729-927-99	s	TRANSISTOR 2SC4617R
Q408	8-729-927-99	s	TRANSISTOR 2SC4617R
Q409	8-729-927-99	s	TRANSISTOR 2SC4617R
Q410	8-729-927-99	s	TRANSISTOR 2SC4617R
Q411	8-729-928-19	s	TRANSISTOR 2SA1774R
Q412	8-729-928-19	s	TRANSISTOR 2SA1774R
Q413	8-729-928-19	s	TRANSISTOR 2SA1774R
Q414	8-729-928-19	s	TRANSISTOR 2SA1774R
Q415	8-729-928-19	s	TRANSISTOR 2SA1774R
Q416	8-729-928-81	s	TRANSISTOR DTC144EE
Q417	8-729-928-81	s	TRANSISTOR DTC144EE
Q418	8-729-928-81	s	TRANSISTOR DTC144EE
Q1001	8-729-927-99	s	TRANSISTOR 2SC4617R
Q1002	8-729-928-19	s	TRANSISTOR 2SA1774R
Q1003	8-729-928-81	s	TRANSISTOR DTC144EE
Q1004	8-729-928-81	s	TRANSISTOR DTC144EE
Q1005	8-729-928-81	s	TRANSISTOR DTC144EE
R1	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R2	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R4	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R5	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R6	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R7	1-218-726-11	s	RESISTOR CHIP 27K 1/16W (1608)
R8	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R9	1-216-855-11	s	RESISTOR, CHIP 680K 1/16W 1608
R10	1-216-828-11	s	RESISTOR, CHIP 3.9K 1/16W 1608
R11	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R12	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R13	1-216-855-11	s	RESISTOR, CHIP 680K 1/16W 1608
R14	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R15	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R16	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R17	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R18	1-218-713-11	s	RESISTOR,METAL 7.5K 1/16W
R19	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R20	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R21	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R22	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R23	1-216-818-11	s	RESISTOR, CHIP 560 1/16W 1608
R24	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R25	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R26	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R27	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R28	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R29	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R30	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R31	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R32	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R33	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R34	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R35	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R36	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R37	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R38	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R39	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R40	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R41	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R42	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R43	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R44	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R45	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R46	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R47	1-218-716-11	s	RESISTOR,CHIP 10K 1/16W(1608)
R48	1-216-818-11	s	RESISTOR, CHIP 560 1/16W 1608
R49	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R50	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R51	1-216-815-11	s	RESISTOR,CHIP 330 1/16W 1608
R52	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R53	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R54	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R55	1-216-818-11	s	RESISTOR, CHIP 560 1/16W 1608
R56	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R57	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R58	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R59	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R60	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R61	1-218-698-11	s	RESISTOR,CHIP 1.8K 1/16W(1608)
R62	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R64	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R65	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R66	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R67	1-218-710-11	s	RESISTOR,CHIP 5.6K 1/16W(1608)
R68	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R69	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R70	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R71	1-218-714-11	s	RESISTOR,CHIP 8.2K 1/16W(1608)
R72	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R73	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R74	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R75	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R76	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R77	1-216-820-11	s	RESISTOR, CHIP 820 1/16W 1608
R78	1-218-676-11	s	RESISTOR,CHIP 220 1/16W(1608)
R79	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R80	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R81	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R82	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R83	1-218-693-11	s	RESISTOR,CHIP 1.1K 1/16W(1608)
R84	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R85	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R86	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R89	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R90	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R91	1-218-694-11	s	RESISTOR,CHIP 1.2K1/16W(1608)
R92	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R93	1-218-672-11	s	RESISTOR,CHIP 150 1/16W(1608)
R94	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R95	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R96	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R97	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R98	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R99	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R100	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R101	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R102	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R103	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R104	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R105	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R106	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R107	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R108	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R109	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R110	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R111	1-216-295-91	s	CONDUCTOR, CHIP (2012)
R112	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R113	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R118	1-216-857-11	s	RESISTOR, CHIP 1M
R119	1-216-857-11	s	RESISTOR, CHIP 1M
R201	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R202	1-216-840-11	s	RESISTOR,CHIP 39K 1/16W 1608
R204	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R205	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R207	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R213	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R214	1-218-661-11	s	RESISTOR,CHIP 51 1/16W (1608)
R215	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R216	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
R217	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
R218	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
R219	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
R220	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R223	1-218-731-11	s	RESISTOR,METAL 43K 1/16
R232	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R233	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R236	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R239	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R240	1-216-835-11	s	RESISTOR,CHIP 15K 1/16W
R245	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R246	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R248	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R252	1-216-822-11	s	RESISTOR, CHIP 1.2K 1/16W 1608
R255	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
R256	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R257	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R258	1-216-836-11	s	RESISTOR, CHIP 18K 1/16W 1608
R260	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R261	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R262	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R263	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R265	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R266	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R269	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R271	1-216-816-11	s	RESISTOR, CHIP 390 1/16W 1608
R272	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R273	1-218-712-11	s	RESISTOR,METAL 6.8K 1/16W
R274	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R275	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R276	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R277	1-216-855-11	s	RESISTOR, CHIP 680K 1/16W 1608
R278	1-216-864-11	s	CONDUCTOR, CHIP
R279	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R280	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R281	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R282	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R283	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R284	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R285	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R286	1-216-815-11	s	RESISTOR,CHIP 330 1/16W 1608
R287	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R288	1-216-836-11	s	RESISTOR, CHIP 18K 1/16W 1608
R289	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R290	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R291	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R292	1-218-686-11	s	RESISTOR CHIP 560 1/16W (1608)
R293	1-218-684-11	s	RESISTOR,CHIP 470 1/16W (1608)
R294	1-218-688-11	s	RESISTOR,CHIP 680 1/16W(1608)
R295	1-218-720-11	s	RESISTOR,CHIP 15K 1/16W(1608)
R296	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R298	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R299	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R301	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R302	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R303	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R304	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R305	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R306	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R307	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R308	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R401	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R402	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R403	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R405	1-218-703-11	s	RESISTOR,CHIP 3.0K 1/16(1608)
R406	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R407	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R409	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R410	1-218-690-11	s	RESISTOR,CHIP 820 1/16W (1608)
R411	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R412	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R413	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R414	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R415	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R416	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R417	1-216-823-11	s	RESISTOR, CHIP 1.5K 1/16W
R418	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R419	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R421	1-218-722-11	s	RESISTOR, CHIP 18K 1/16W 1608
R423	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R424	1-218-707-11	s	RESISTOR,CHIP 4.3K 1/16W(1608)
R425	1-218-738-11	s	RESISTOR,CHIP 82K 1/16W(1608)
R426	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R427	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R428	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R429	1-218-692-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R430	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R431	1-218-744-11	s	RESISTOR,CHIP 150K 1/16W
R432	1-218-660-91	s	RESISTOR,CHIP 47 1/16W (1608)
R433	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R434	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R435	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R440	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R441	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R442	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R443	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R444	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R445	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R446	1-216-849-11	s	RESISTOR,CHIP 220K 1/16W 1608
R447	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R448	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R449	1-218-704-11	s	RESISTOR,CHIP 3.3K 1/16W(1608)
R450	1-218-702-11	s	RESISTOR CHIP 2.7K 1/16W(1608)
R451	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R452	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R453	1-218-708-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R454	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R455	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R456	1-216-843-11	s	RESISTOR,CHIP 68K 1/16W (1608)
R457	1-216-843-11	s	RESISTOR,CHIP 68K 1/16W (1608)
R458	1-216-843-11	s	RESISTOR,CHIP 68K 1/16W (1608)
R459	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R460	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R604	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R607	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R608	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R609	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R610	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R611	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R612	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R613	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R614	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R615	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R616	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R620	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R621	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R622	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R623	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R624	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R625	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R626	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R627	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R629	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R630	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R631	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R632	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R633	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R634	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R635	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R636	1-216-801-11	s	RESISTOR,CHIP 22 1/16W (1608)
R637	1-218-724-11	s	RESISTOR,CHIP 22K 1/16W(1608)
R638	1-218-700-11	s	RESISTOR,CHIP 2.2K 1/16W(1608)
R801	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R802	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R803	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R804	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R805	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R1001	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1003	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1004	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R1005	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R1007	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1008	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1009	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1010	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1011	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R1013	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1015	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1016	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R1017	1-216-838-11	s	RESISTOR CHIP 27K 1/16W(1608)
R1018	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1019	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R1020	1-218-675-11	s	RESISTOR,CHIP 200 1/16W (1608)
R1021	1-218-703-11	s	RESISTOR,CHIP 3.0K 1/16(1608)
R1022	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1023	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1024	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R1025	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R1026	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R1027	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R1028	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R1029	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R1030	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1031	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1032	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R1033	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R1034	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1035	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R1041	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R1044	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1045	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1046	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R1047	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1048	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R1050	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1052	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1055	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1056	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R1057	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R1058	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description	
R1061	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608	
R1062	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608	
R1063	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)	
R1065	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1066	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1067	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1068	1-216-838-11	s	RESISTOR CHIP 27K 1/16W(1608)	
R1069	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)	
R1070	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1071	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)	
R1201	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)	
R1202	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)	
R1203	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)	
R1204	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)	
R1205	1-218-679-11	s	RESISTOR,CHIP 300 1/16W (1608)	
R1206	1-218-679-11	s	RESISTOR,CHIP 300 1/16W (1608)	
R1207	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)	
R1208	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)	
R1209	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608	
R1210	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608	
R1211	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608	
R1213	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608	
R1214	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608	
R1215	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1216	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1217	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1218	1-218-740-11	s	RESISTOR,CHIP 100K 1/16W(1608)	
R1220	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1222	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1226	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1227	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
R1228	1-216-864-11	s	CONDUCTOR, CHIP (1608)	
RB201	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB202	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB203	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB204	1-234-375-21	s	RES, NETWORK 1KX4	(1005)
RB205	1-234-375-21	s	RES, NETWORK 1KX4	(1005)
RB206	1-234-375-21	s	RES, NETWORK 1KX4	(1005)
RB401	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB402	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB403	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB404	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB405	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB406	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB407	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB408	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB409	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB410	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB411	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB412	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB601	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB602	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB603	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB604	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB605	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB606	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB607	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB608	1-234-371-11	s	RES, NETWORK 47X4	(1005)

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description	
RB609	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB610	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB611	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB612	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB801	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB802	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB803	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB804	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB805	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB806	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB807	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1001	1-234-369-21	s	RES, NETWORK 10X4	(1005)
RB1002	1-234-369-21	s	RES, NETWORK 10X4	(1005)
RB1003	1-234-369-21	s	RES, NETWORK 10X4	(1005)
RB1004	1-234-369-21	s	RES, NETWORK 10X4	(1005)
RB1005	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1006	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1007	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1008	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1009	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1010	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1011	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1012	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1013	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1014	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1201	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1202	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1203	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1204	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1205	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1206	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1207	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1211	1-234-371-11	s	RES, NETWORK 47X4	(1005)
RB1212	1-234-371-11	s	RES, NETWORK 47X4	(1005)
TH401	1-809-350-21	s	THERMISTOR	
TP1	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP2	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP3	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP4	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP5	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP6	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP7	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP8	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP9	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP201	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP202	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP401	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP402	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP403	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP608	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP609	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP611	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP612	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP613	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP614	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP615	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP801	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	
TP802	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)	

(B BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
TP803	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP804	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP805	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1201	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1202	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1203	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1204	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
TP1205	1-535-757-11	s	CHIP, CHECKER (CONNECTOR)
X1	1-781-914-21	s	VIBRATOR, CRYSTAL (16.2MHZ)
X2	1-760-502-11	s	VIBRATOR, CRYSTAL (14.318MHZ)
X601	1-795-283-21	s	OSCILLATOR, CRYSTAL (70MHZ)
X801	1-760-348-21	s	OSCILLATOR, CRYSTAL (65.0287MHZ)
X802	1-767-365-21	s	OSCILLATOR, CRYSTAL (100MHZ)
X1001	1-579-886-11	s	VIBRATOR, CRYSTAL (32.768KHZ)
X1002	1-781-659-11	s	VIBRATOR, CRYSTAL (12.288MHZ)

H1 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	8-330-030-57	s	MOUNTED CIRCUIT BOARD, H1
C8501	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C8502	1-125-838-11	s	CAPACITOR, CERAMIC 2.2MF/6.3V
CN8501	1-506-487-11	s	PIN,CONNECTOR 8P
D8502	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8503	8-719-053-43	s	LED SLR-325VCT31
D8504	8-719-060-27	s	LED SLR-325MCT31
D8505	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8506	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8507	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D8508	8-719-069-55	s	DIODE UDZS-TE17-5.6B
IC8501	6-600-098-01	s	IC GP1UM26SXK
R8501	1-216-047-91	s	RESISTOR, CHIP 820 1/10W(2125)
R8503	1-216-043-91	s	RESISTOR, CHIP 560 1/10W(2125)
R8505	1-216-017-91	s	RESISTOR, CHIP 47 1/10W(2012)
S8501	1-692-829-11	s	SWITCH, TACTILE (POWER)

H2 BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	8-330-030-60	s	MOUNTED CIRCUIT BOARD, H2
C8601	1-115-566-11	s	CAPACITOR,CERAMIC 4.7MF B/6.3V
C8602	1-162-915-11	s	CAPACITOR,CERAMIC 10PF/50V CH
CN8601	1-764-088-11	o	PIN, CONNECTOR (PC BOARD) 3P
R8601	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R8602	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R8603	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R8604	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R8605	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R8606	1-216-824-11	s	RESISTOR, CHIP 1.8K 1/16W 1608
S8601	1-692-829-11	s	SWITCH, TACTILE (MENU)
S8602	1-692-829-11	s	SWITCH, TACTILE (DOWN)
S8603	1-692-829-11	s	SWITCH, TACTILE (UP)
S8604	1-692-829-11	s	SWITCH, TACTILE (ENTER)
S8605	1-692-829-11	s	SWITCH, TACTILE (VOL-)
S8606	1-692-829-11	s	SWITCH, TACTILE (VOL+)

Q BOARD

Ref. No. or Q'ty	Part No.	SP	Description
1pc	8-330-030-61	s	MOUNTED CIRCUIT BOARD, Q
C3003	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3004	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3005	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3006	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3007	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3008	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3009	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3010	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3011	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3012	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3013	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3014	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3015	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C3016	1-115-459-11	s	CAPACITOR,ELECT 47MF/6.3V(BP)
C3017	1-115-459-11	s	CAPACITOR,ELECT 47MF/6.3V(BP)
C3018	1-127-692-11	s	CAP, CHIP CERAMIC 10MF B 3216
C3019	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3020	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3021	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3022	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3023	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3024	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3033	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3034	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3035	1-164-004-11	s	CAPACITOR,CERAMIC 0.1MF/25V
C3036	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3037	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3038	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3039	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3040	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3041	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3042	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3043	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3044	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3045	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3046	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3047	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3048	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3049	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3050	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3051	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3052	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3053	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3054	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3055	1-162-923-11	s	CAPACITOR,CERAMIC 47PF/50V CH
C3056	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3057	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3058	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3059	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3060	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3061	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3062	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3063	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3064	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3065	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3066	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3067	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C3068	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3069	1-162-964-11	s	CAPACITOR,CERAMIC 1000PF/50V B
C3070	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3072	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3074	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3076	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3077	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3078	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3079	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3080	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3081	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3082	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3083	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3084	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3085	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3086	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3087	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3088	1-165-176-11	s	CAPACITOR, CERAMIC 47000PF/16V
C3089	1-165-176-11	s	CAPACITOR, CERAMIC 47000PF/16V
C3090	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3091	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3092	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3093	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3094	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3096	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3097	1-126-395-11	s	CAPACITOR,ELECT 22MF/16V(CHIP)
C3100	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3101	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3102	1-104-661-91	s	CAPACITOR, ELECT 330MF/16V
C3103	1-104-661-91	s	CAPACITOR, ELECT 330MF/16V
C3104	1-104-661-91	s	CAPACITOR, ELECT 330MF/16V
C3105	1-104-661-91	s	CAPACITOR, ELECT 330MF/16V
C3106	1-104-661-91	s	CAPACITOR, ELECT 330MF/16V
C3107	1-104-661-91	s	CAPACITOR, ELECT 330MF/16V
C3108	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3109	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3111	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3112	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3113	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3114	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3115	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3116	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3117	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3118	1-126-206-11	s	CAPACITOR, ELECT 100MF/6.3V
C3119	1-162-587-11	s	CAPACITOR,CHIP CERAMIC 0.039MF
C3120	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3121	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3122	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3123	1-162-587-11	s	CAPACITOR,CHIP CERAMIC 0.039MF
C3124	1-162-587-11	s	CAPACITOR,CHIP CERAMIC 0.039MF
C3125	1-126-602-11	s	CAPACITOR,ELECT 3.3MF/50V(CHIP
C3126	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3127	1-163-135-00	s	CAPACITOR,CHIP CERAMIC 560PF
C3128	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3129	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3130	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3131	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3132	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3133	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C3134	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3135	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3136	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3137	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3138	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
C3139	1-162-968-11	s	CAPACITOR,CERAMIC 4700PF/50V B
C3140	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C3141	1-115-416-11	s	CAPACITOR,CERAMIC 1000PF/25V
C3142	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C3143	1-164-505-11	s	CAPACITOR,CHIP CERAMIC 2.2MF
C3144	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C3145	1-162-927-11	s	CAPACITOR,CERAMIC 100PF/50V CH
C3147	1-107-884-11	s	CAPACITOR,ELECT 1000MF/16V
C3148	1-107-884-11	s	CAPACITOR,ELECT 1000MF/16V
C3150	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3151	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3152	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3153	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3154	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C3155	1-115-339-11	s	CAPACITOR,CERAMIC 0.1MF/50V
C3158	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3159	1-107-884-11	s	CAPACITOR,ELECT 1000MF/16V
C3160	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3161	1-107-884-11	s	CAPACITOR,ELECT 1000MF/16V
C3162	1-126-395-11	s	CAPACITOR,ELECT 22MF/16V(CHIP)
C3164	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3165	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3166	1-163-135-00	s	CAPACITOR,CHIP CERAMIC 560PF
C3167	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3168	1-163-135-00	s	CAPACITOR,CHIP CERAMIC 560PF
C3169	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3170	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3171	1-162-970-11	s	CAPACITOR,CERAMIC 0.01MF
C3172	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3173	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3174	1-126-395-11	s	CAPACITOR,ELECT 22MF/16V(CHIP)
C3175	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3176	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3177	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3178	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3179	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3180	1-137-980-91	s	CAPACITOR,CHIP CERAMIC 0.47MF
C3181	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3182	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3183	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3184	1-162-970-11	s	CAPACITOR CERAMIC 0.01MF/25V B
C3185	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3186	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3187	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3188	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3189	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3190	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3191	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3192	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3197	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3198	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3199	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3200	1-126-205-11	s	CAPACITOR,ELECT 47M/6.3
C3201	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
C3202	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3203	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3204	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3205	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3206	1-117-681-11	s	CAPACITOR, ELECT 100MF/16V
C3207	1-107-826-11	s	CAPACITOR,CHIP CERAMIC 0.1MF
C3208	1-124-778-00	s	CAPACITOR,ELECT 22MF/6.3V
C3209	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3210	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3211	1-126-204-11	s	CAPACITOR, ELECT 47MF/16V(CHIP
C3212	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3213	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3214	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3215	1-127-573-11	s	CAPACITOR,CERAMIC 1MFB(2012)
C3216	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
C3217	1-124-779-00	s	CAPACITOR,ELECT 10MF/16V
CLP3001	4-042-408-01	o	PIN, COATING LEAD
CLP3002	4-042-408-01	o	PIN, COATING LEAD
CN3001	1-764-095-11	o	PIN, CONNECTOR (PC BOARD) 10P
CN3002	1-784-625-11	o	CONNECTOR, FFC (ZIF) 30P
CN3003	1-764-092-11	o	PIN, CONNECTOR (PC BOARD) 7P
CN3004	1-764-080-21	s	PIN, CONNECTOR (PC BOARD) 8P
CN3005	1-564-525-11	o	PLUG,CONNECTOR (10P)(L-TYPE)
CN3007	1-695-210-21	o	PIN, CONNECTOR (PC BOARD) 15P
CN3008	1-506-483-21	s	PIN, CONNECTOR 4P
CN3009	1-815-410-11	o	SOCKET, CONNECTOR
CN3011	1-764-090-11	o	PIN, CONNECTOR (PC BOARD) 5P
CN3014	1-564-509-11	s	PLUG,CONNECTOR (6P)
CN3015	1-564-509-11	s	PLUG,CONNECTOR (6P)
D3001	8-719-800-76	s	DIODE 1SS226
D3002	8-719-800-76	s	DIODE 1SS226
D3003	8-719-800-76	s	DIODE 1SS226
D3004	8-719-800-76	s	DIODE 1SS226
D3005	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3006	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3007	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3008	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3009	8-719-800-76	s	DIODE 1SS226
D3010	8-719-800-76	s	DIODE 1SS226
D3011	8-719-800-76	s	DIODE 1SS226
D3012	8-719-800-76	s	DIODE 1SS226
D3013	8-719-800-76	s	DIODE 1SS226
D3014	8-719-800-76	s	DIODE 1SS226
D3015	8-719-083-82	s	DIODE UDZS-TE17-12B
D3016	8-719-083-82	s	DIODE UDZS-TE17-12B
D3017	8-719-083-82	s	DIODE UDZS-TE17-12B
D3018	8-719-083-82	s	DIODE UDZS-TE17-12B
D3019	8-719-921-40	s	DIODE MTZJ-4.7C
D3020	8-719-921-40	s	DIODE MTZJ-4.7C
D3021	8-719-083-60	s	DIODE UDZSTE-174.7B
D3022	8-719-083-60	s	DIODE UDZSTE-174.7B
D3023	8-719-921-40	s	DIODE MTZJ-4.7C
D3024	8-719-921-40	s	DIODE MTZJ-4.7C
D3025	8-719-083-60	s	DIODE UDZSTE-174.7B
D3026	8-719-083-60	s	DIODE UDZSTE-174.7B
D3027	8-719-036-94	s	DIODE RD5.6SB-T1
D3028	8-719-059-22	s	DIODE NSQ03A06-TE16L

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
D3035	8-719-977-28	s	DIODE DTZ10B
D3036	8-719-977-28	s	DIODE DTZ10B
D3037	8-719-977-28	s	DIODE DTZ10B
D3038	8-719-977-28	s	DIODE DTZ10B
D3042	8-719-073-01	s	DIODE MA111-(K8).S0
D3043	8-719-041-97	s	DIODE MA113-TX
D3044	8-719-991-00	s	DIODE DAP222
D3048	8-719-025-47	s	DIODE 02CZ12-TE85L
D3049	8-719-025-47	s	DIODE 02CZ12-TE85L
D3050	8-719-025-47	s	DIODE 02CZ12-TE85L
D3051	8-719-025-47	s	DIODE 02CZ12-TE85L
D3052	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3053	8-719-069-55	s	DIODE UDZS-TE17-5.6B
D3054	8-719-025-47	s	DIODE 02CZ12-TE85L
D3055	8-719-025-47	s	DIODE 02CZ12-TE85L
D3056	8-719-025-47	s	DIODE 02CZ12-TE85L
D3057	8-719-025-47	s	DIODE 02CZ12-TE85L
D3060	8-719-977-28	s	DIODE DTZ10B
D3061	8-719-977-28	s	DIODE DTZ10B
D3062	8-719-056-23	s	DIODE MA2S111-(K8)
FB3001	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3002	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3003	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3004	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3005	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3006	1-414-234-11	s	INDUCTOR,FERRITE BEAD
FB3007	1-410-396-41	s	FERRITE BEAD INDUCTOR (0.45UH)
IC3001	8-759-697-54	s	IC BR24C21F-E2
IC3002	8-759-697-54	s	IC BR24C21F-E2
IC3003	8-759-541-25	s	IC M52758FP
IC3004	8-759-541-25	s	IC M52758FP
IC3005	8-759-011-64	s	IC MC74HC4052F
IC3006	8-759-541-25	s	IC M52758FP
IC3007	8-759-700-07	s	IC NJM2903M
IC3008	8-759-460-81	s	IC BA12FP-E2
IC3010	6-700-571-01	s	IC TK15452V
IC3011	8-759-331-71	s	IC NJM4558E(TE2)
IC3012	8-759-172-60	s	IC TA8776N
IC3014	6-700-481-01	s	IC TDA7480
IC3015	6-700-481-01	s	IC TDA7480
IC3016	8-759-335-28	s	IC TA78M09F (TE16L)
IC3017	8-759-232-44	s	IC TC74HC125AF
IC3018	8-759-252-59	s	IC MAX202CSE
IC3019	8-759-439-67	s	IC TC7W126FU(TE12R)
IC3020	8-759-327-60	s	IC TC7W125FU-TE12R
IC3022	8-759-351-01	s	IC TEA6422DT
IC3023	8-759-673-52	s	IC MM74HC32MTCX
J3001	1-793-183-11	s	CONNECTOR, D SUB 15P (INPUT2)
J3002	1-793-183-11	s	CONNECTOR, D SUB 15P (INPUT1)
J3003	1-566-822-21	s	JACK (INPUT1 AUDIO)
J3004	1-566-822-21	s	JACK (INPUT2 AUDIO)
J3005	1-563-330-11	s	JACK (3.5MM) (SIRCS IN)
J3006	1-563-330-11	s	JACK (3.5MM) (SIRCS OUT)
J3007	1-565-269-31	s	SOCKET,CONNECTOR(D-DUB,L)9P (REMOTE)
JR3002	1-216-295-91	s	CONDUCTOR, CHIP (2012)
L3001	1-406-666-21	s	COIL, CHOKE 150UH
L3002	1-406-666-21	s	COIL, CHOKE 150UH

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
L3004	1-416-857-11	s	COIL, CHOKE (TROIDAL) 65UH
L3005	1-416-857-11	s	COIL, CHOKE (TROIDAL) 65UH
L3006	1-412-029-11	s	CHIP INDUCTOR 10UH (3225)
Q3001	8-729-928-81	s	TRANSISTOR DTC144EE
Q3002	8-729-928-81	s	TRANSISTOR DTC144EE
Q3003	8-729-112-65	s	TRANSISTOR 2SA1462
Q3004	8-729-112-65	s	TRANSISTOR 2SA1462
Q3005	8-729-112-65	s	TRANSISTOR 2SA1462
Q3006	8-729-928-81	s	TRANSISTOR DTC144EE
Q3007	1-801-806-11	s	TRANSISTOR DTC144EKA
Q3008	1-801-806-11	s	TRANSISTOR DTC144EKA
Q3009	8-729-026-49	s	TRANSISTOR 2SA1037AK-T146-R
Q3010	8-729-927-99	s	TRANSISTOR 2SC4617R
Q3011	8-729-041-37	s	TRANSISTOR 2SJ377(TE16L)
Q3017	8-729-928-81	s	TRANSISTOR DTC144EE
Q3019	8-729-216-22	s	TRANSISTOR 2SA1162-G
Q3021	8-729-928-81	s	TRANSISTOR DTC144EE
Q3024	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q3025	8-729-120-28	s	TRANSISTOR 2SC1623-L5L6
Q3029	8-729-928-81	s	TRANSISTOR DTC144EE
Q3030	8-729-927-99	s	TRANSISTOR 2SC4617R
Q3032	8-729-928-27	s	TRANSISTOR DTA144EE
R3001	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3002	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3003	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3004	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3005	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3006	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3007	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3008	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R3009	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R3010	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R3011	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R3012	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R3013	1-218-666-11	s	RESISTOR,CHIP 82 1/16W (1608)
R3014	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3015	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3016	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3017	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3018	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3019	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3020	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3021	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3022	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3023	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3024	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3025	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R3026	1-216-813-11	s	RESISTOR, CHIP 220 1/16W 1608
R3027	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3028	1-216-805-11	s	RESISTOR, CHIP 47 1/16W 1608
R3029	1-216-805-11	s	RESISTOR, CHIP 47 1/16W 1608
R3030	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3031	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3032	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3033	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3034	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3035	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3036	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R3038	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3039	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3041	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3042	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3043	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3044	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3045	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3046	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3047	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3048	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3049	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3050	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R3051	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R3052	1-216-817-11	s	RESISTOR,CHIP 470 1/16W 1608
R3053	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3054	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3055	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3056	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3057	1-216-805-11	s	RESISTOR,CHIP 47 1/16W 1608
R3058	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3059	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3060	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3061	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R3062	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R3063	1-216-819-11	s	RESISTOR,CHIP 680 1/16W 1608
R3064	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3065	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3066	1-216-836-11	s	RESISTOR, CHIP 18K 1/16W 1608
R3067	1-216-832-11	s	RESISTOR,CHIP 8.2K 1/16W 1608
R3068	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R3069	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3070	1-216-826-11	s	RESISTOR,CHIP 2.7K 1/16W(1608)
R3071	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3072	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3073	1-249-381-11	s	RES,CARBON 1 (1/4W)
R3074	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3075	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3076	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3077	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3078	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3081	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3085	1-216-849-11	s	RESISTOR,CHIP 220K 1/16W 1608
R3086	1-216-849-11	s	RESISTOR,CHIP 220K 1/16W 1608
R3087	1-216-849-11	s	RESISTOR,CHIP 220K 1/16W 1608
R3088	1-216-849-11	s	RESISTOR,CHIP 220K 1/16W 1608
R3092	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R3093	1-218-869-11	s	RESISTOR,CHIP 8.2K 1/16W
R3094	1-218-839-11	s	RESISTOR,CHIP 470 1/16W 1608
R3095	1-218-825-11	s	RESISTOR,CHIP 120 1/16W (1608)
R3096	1-218-825-11	s	RESISTOR,CHIP 120 1/16W (1608)
R3097	1-218-839-11	s	RESISTOR,CHIP 470 1/16W 1608
R3098	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R3099	1-218-871-11	s	RESISTOR,CHIP 10K 1/16W
R3101	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R3102	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R3103	1-216-827-11	s	RESISTOR, CHIP 3.3K 1/16W 1608
R3104	1-216-830-11	s	RESISTOR,CHIP 5.6K 1/16W 1608
R3105	1-218-825-11	s	RESISTOR,CHIP 120 1/16W (1608)
R3106	1-218-839-11	s	RESISTOR,CHIP 470 1/16W 1608

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R3107	1-218-867-11	s	RESISTOR,CHIP 6.8K 1/16W(1608)
R3108	1-218-869-11	s	RESISTOR,CHIP 8.2K 1/16W
R3110	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3111	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3112	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3113	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3114	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3115	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3116	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3117	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3118	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3119	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3120	1-216-834-11	s	RESISTOR,CHIP 12K 1/16W 1608
R3121	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3122	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3123	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3125	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3126	1-216-837-11	s	RESISTOR,CHIP 22K 1/16W 1608
R3127	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3128	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3129	1-216-857-11	s	RESISTOR,CHIP 1M 1/16W(1608)
R3132	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3133	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3134	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3135	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3136	1-216-852-11	s	RESISTOR,CHIP 390K 1/16W 1608
R3137	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R3138	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3139	1-216-839-11	s	RESISTOR,CHIP 33K 1/16W 1608
R3141	1-216-834-11	s	RESISTOR,CHIP 12K 1/16W 1608
R3142	1-216-832-11	s	RESISTOR,CHIP 8.2K 1/16W 1608
R3143	1-218-823-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3144	1-218-823-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3145	1-218-823-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3147	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3148	1-216-811-11	s	RESISTOR, CHIP 150 1/16W(1608)
R3153	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3154	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3155	1-216-841-11	s	RESISTOR, CHIP 47K 1/16W 1608
R3156	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3157	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3158	1-216-845-11	s	RESISTOR,CHIP 100K 1/16W(1608)
R3159	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3160	1-216-829-11	s	RESISTOR,CHIP 4.7K 1/16W(1608)
R3161	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3162	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3163	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R3164	1-218-668-11	s	RESISTOR,CHIP 100 1/16W (1608)
R3168	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3169	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3170	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3171	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3172	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3173	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3183	1-216-864-11	s	CONDUCTOR, CHIP (1608)
R3184	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3185	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3186	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608
R3187	1-216-797-11	s	RESISTOR,CHIP 10 1/16W 1608

(Q BOARD)

Ref. No. or Q'ty	Part No.	SP	Description
R3188	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3189	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3190	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3191	1-216-833-11	s	RESISTOR,CHIP 10K 1/16W (1608)
R3192	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R3193	1-216-809-11	s	RESISTOR,CHIP 100 1/16W 1608
R3194	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3195	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
R3196	1-216-825-11	s	RESISTOR,CHIP 2.2K 1/16W 1608
R3197	1-216-821-11	s	RESISTOR,CHIP 1.0K 1/16W(1608)
S3001	1-553-510-11	s	SWITCH, SLIDE

QA BOARD (BKM-B10) (For PFM-32C1)

Ref. No. or Q'ty	Part No.	SP	Description
1pc	A-1270-443-A	o	MOUNTED CIRCUIT BOARD, QA
C9501	1-126-964-11	s	CAPACITOR, ELECT 10MF/50V
C9502	1-126-964-11	s	CAPACITOR, ELECT 10MF/50V
C9503	1-102-129-00	s	CAPACITOR,CERAMIC;50V/0.01MF
C9504	1-126-947-11	s	CAPACITOR, ELECT 47MF/35V
C9505	1-126-947-11	s	CAPACITOR, ELECT 47MF/35V
C9506	1-126-947-11	s	CAPACITOR, ELECT 47MF/35V
C9507	1-126-947-11	s	CAPACITOR, ELECT 47MF/35V
C9508	1-102-129-00	s	CAPACITOR,CERAMIC;50V/0.01MF
C9509	1-126-947-11	s	CAPACITOR, ELECT 47MF/35V
C9510	1-102-129-00	s	CAPACITOR,CERAMIC;50V/0.01MF
C9511	1-102-129-00	s	CAPACITOR,CERAMIC;50V/0.01MF
C9512	1-102-129-00	s	CAPACITOR,CERAMIC;50V/0.01MF
CN9501	1-815-409-11	o	PIN, CONNECTOR(WITH PC PWB)44P
CN9502	1-566-849-11	s	CONNECTOR,(S) TERMINAL 4P (Y/C IN)
CN9503	1-794-872-11	o	CONNECTOR, BNC 2P (VIDEO IN/OUT)
D9501	8-719-110-17	s	DIODE RD10ES-B2
D9502	8-719-110-17	s	DIODE RD10ES-B2
D9503	8-719-110-17	s	DIODE RD10ES-B2
D9504	8-719-110-17	s	DIODE RD10ES-B2
D9505	8-719-110-17	s	DIODE RD10ES-B2
J9501	1-566-822-21	s	JACK (AUDIO IN)
Q9501	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q9502	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
Q9503	8-729-119-78	s	TRANSISTOR 2SC2785-HFE
R9501	1-215-394-00	s	RESISTOR METAL FILM 75 1/4W
R9502	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9503	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9504	1-215-394-00	s	RESISTOR METAL FILM 75 1/4W
R9505	1-215-394-00	s	RESISTOR METAL FILM 75 1/4W
R9506	1-249-417-11	s	RESISTOR,CARBON 1K 1/4W(SMALL)
R9507	1-249-417-11	s	RESISTOR,CARBON 1K 1/4W(SMALL)
R9508	1-249-417-11	s	RESISTOR,CARBON 1K 1/4W(SMALL)
R9510	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9511	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9512	1-247-843-11	s	RESISTOR CARBON (SMALL) 3.3K
R9513	1-249-411-11	s	RES,CARBON 330 1/4W SMALL
R9514	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9515	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9516	1-247-843-11	s	RESISTOR CARBON (SMALL) 3.3K
R9517	1-249-411-11	s	RES,CARBON 330 1/4W SMALL
R9518	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9519	1-249-437-11	s	RESISTOR,CARBON 47K 1/4W SMALL
R9520	1-247-843-11	s	RESISTOR CARBON (SMALL) 3.3K
R9521	1-249-411-11	s	RES,CARBON 330 1/4W SMALL

S BOARD

Ref. No. or Q'ty	Part No.	SP	Description
4pcs	8-330-030-56	s	MOUNTED CIRCUIT BOARD, S
C1501	1-126-392-11	s	CAPACITOR,CHIP ELECT100MF/6.3V
C1502	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1503	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
C1504	1-163-021-91	s	CAPACITOR, CERAMIC 0.01MF/50V
CN1501	1-506-482-11	s	PIN, CONNECTOR 3P
IC1501	8-759-947-34	s	IC LM35DZ
IC1502	8-759-144-72	s	IC UPC358G2-E2
R1501	1-216-627-11	s	RESISTOR,CHIP 100 1/10W (2012)
R1502	1-216-659-11	s	RESISTOR,CHIP 2.2K 1/10W(2012)
R1503	1-216-671-11	s	RESISTOR,CHIP 6.8K 1/10W(2012)
R1504	1-216-049-11	s	RESISTOR,CHIP 1K 1/10W(2012)

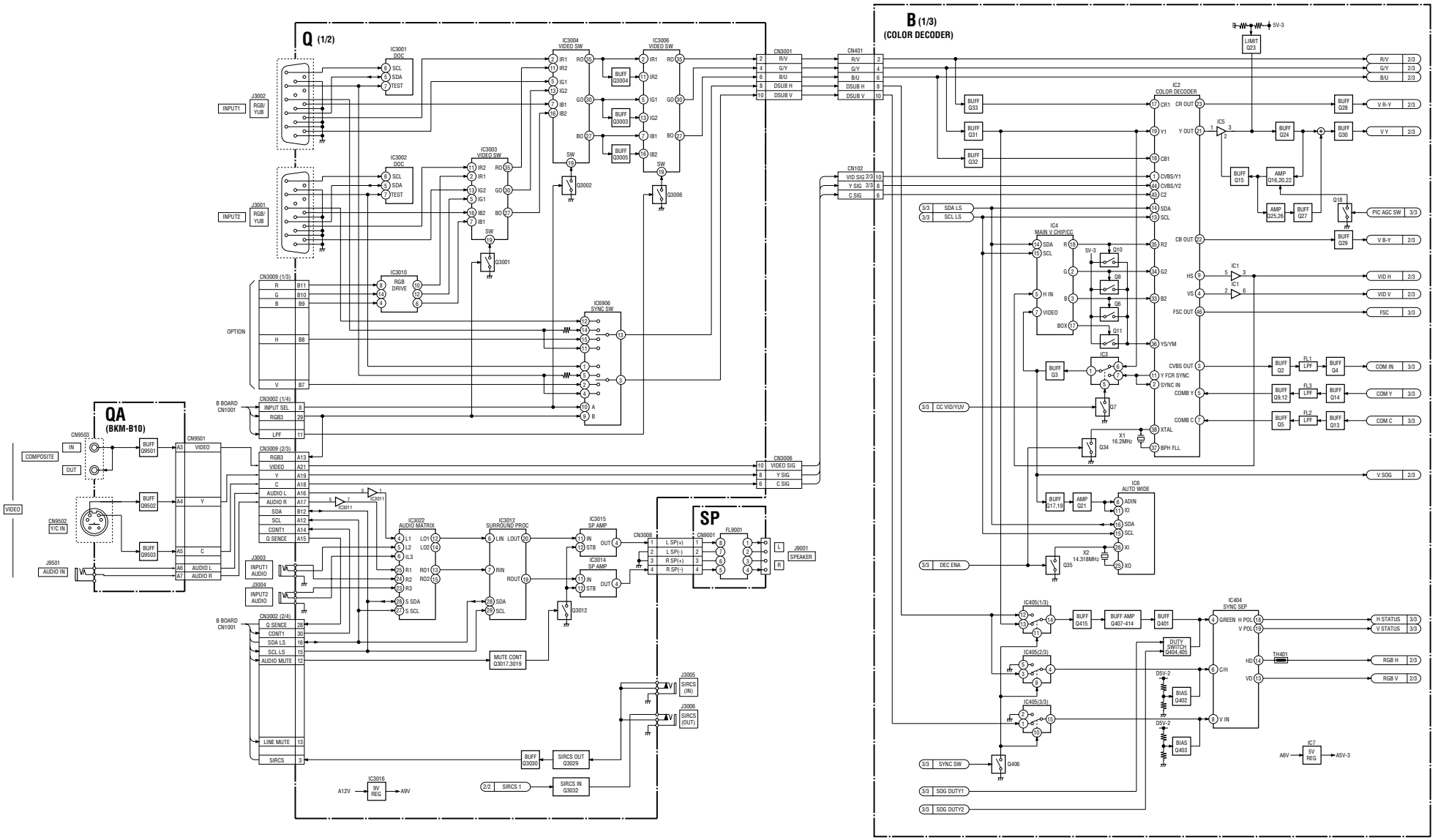
SP BOARD

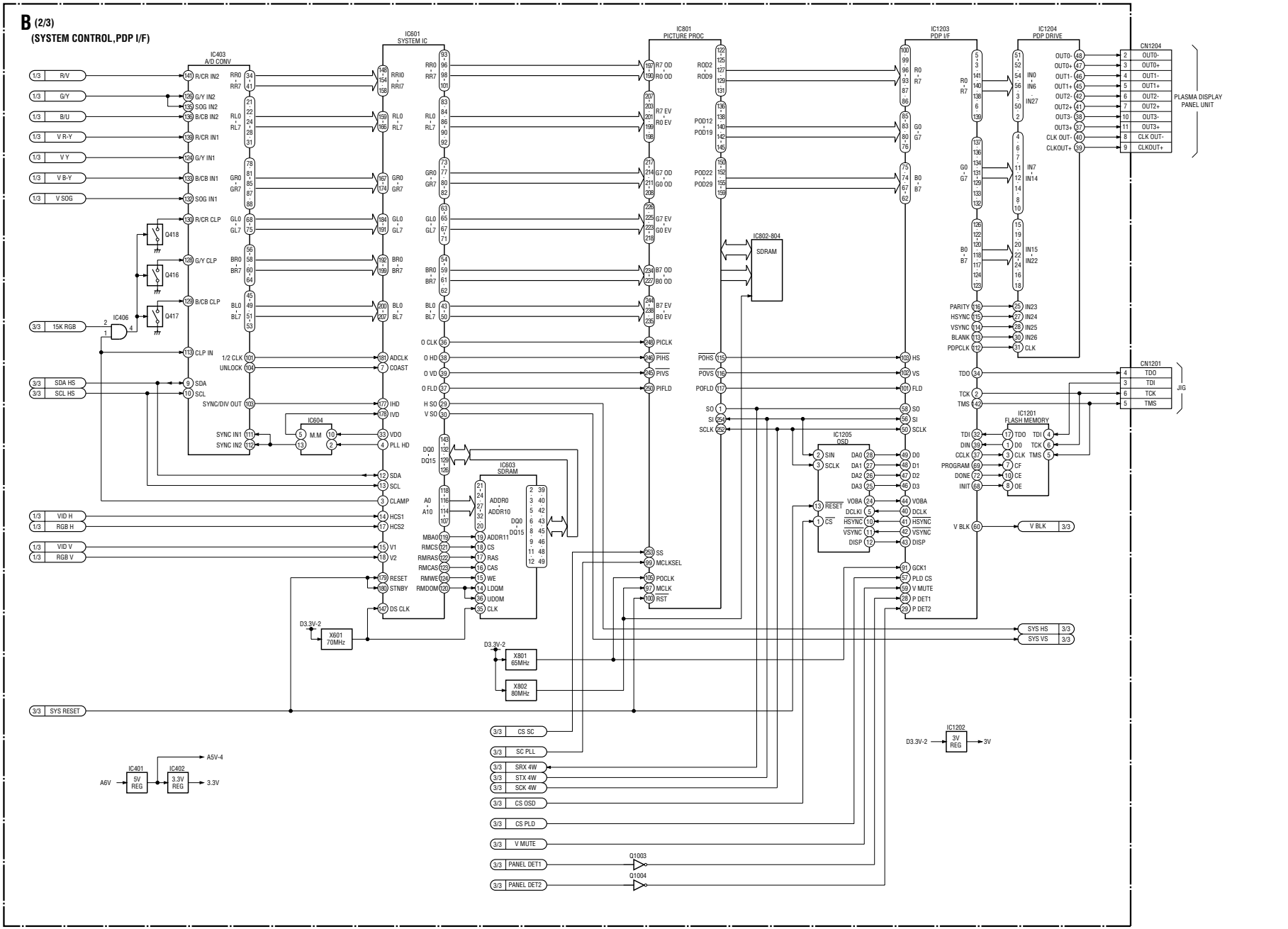
Ref. No. or Q'ty	Part No.	SP	Description
1pc	8-330-030-59	s	MOUNTED CIRCUIT BOARD, SP
CN9001	1-506-483-21	s	PIN, CONNECTOR 4P
FL9001	1-233-895-11	s	FILTER, EMI (ZJY51R5-4P)
J9001	1-536-705-00	s	TERMINAL BOARD (SP) (SPEAKER)
R9001	1-469-869-21	s	INDUCTOR (EMI FERRITE) (2012)
R9002	1-469-869-21	s	INDUCTOR (EMI FERRITE) (2012)
R9003	1-469-869-21	s	INDUCTOR (EMI FERRITE) (2012)
R9004	1-469-869-21	s	INDUCTOR (EMI FERRITE) (2012)

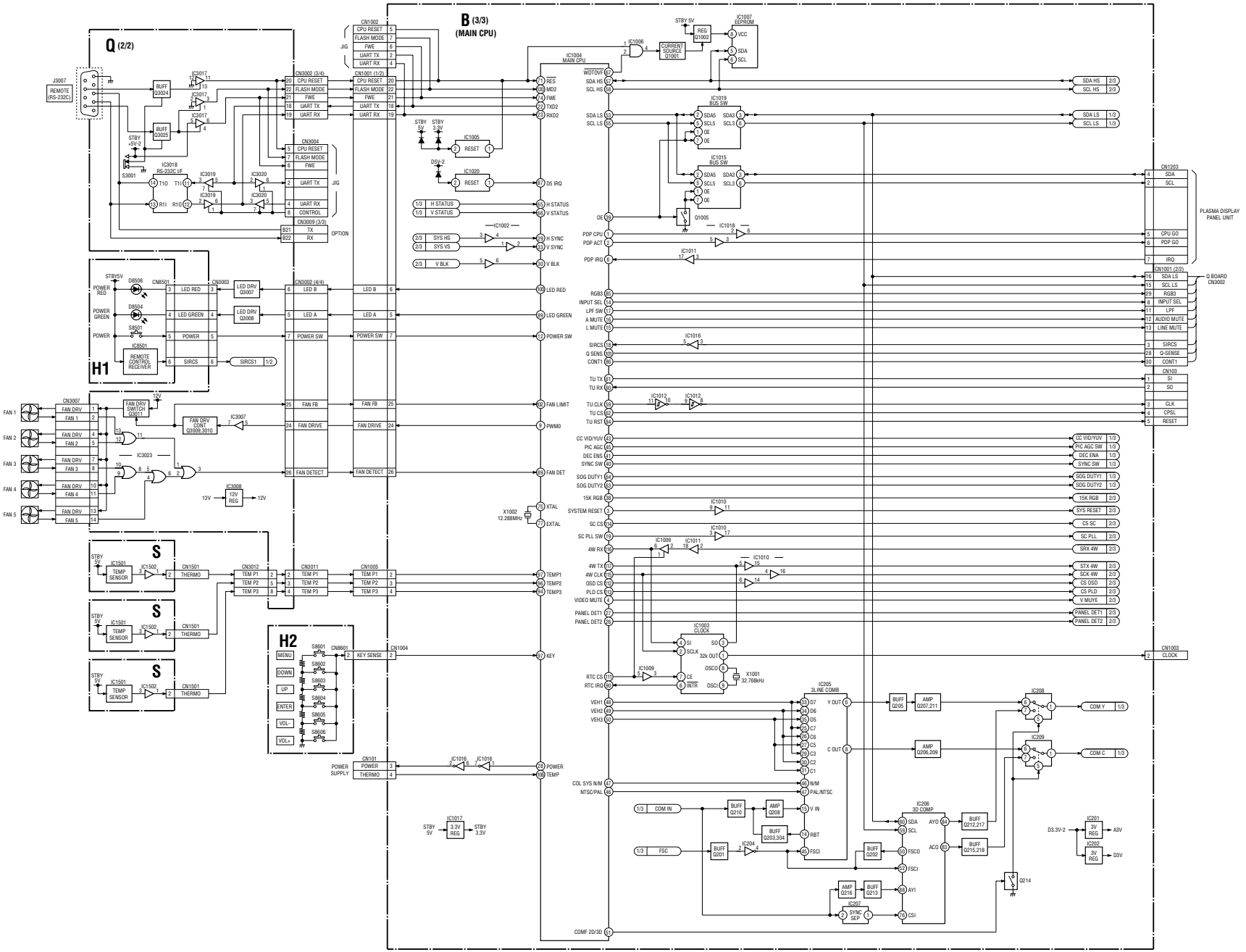
Miscellaneous

Ref. No. or Q'ty	Part No.	SP	Description
1pc	1-469-778-11	o	CLAMP, FERRITE (RFC-5)
1pc	1-469-969-11	s	CLAMP, FERRITE (RFC-6)
1pc	1-469-241-11	s	CLAMP, FERRITE (RFC-8)
1pc	1-500-249-11	s	BEAD, FERRITE (SFC-3)
1pc	1-500-051-11	s	BEAD, FERRITE (SFC-4)
1pc	1-543-653-21	s	CORE ASSY, BEAD (TFCM-16-8-16)
1pc	1-543-993-12	s	CORE, FERRITE (TFCM-16-8-16)
1pc	1-500-263-11	s	CORE, TROIDAL (TFC-23-11-14)
1pc	1-500-459-11	s	FILTER, CLAMP (TFC-16813)
1pc	1-500-511-11	s	CORE, FERRITE (TFC-16816)
1pc	1-543-798-11	s	FILTER, CLAMP (ZCAT2035-0930A)

Section 6
Block Diagrams




B (2/3)
(SYSTEM CONTROL, PDP I/F)
IC403 A/D CONV
IC601 SYSTEM IC
IC801 PICTURE PROC
IC1203 PDP I/F
IC1204 PDP DRIVE
CN1204
PLASMA DISPLAY PANEL UNIT
IC802-804 SDRAM
IC603 SDRAM
IC604
IC1205 OSD
IC1201 FLASH MEMORY
CN1201
JIG
IC406
Q418
Q416
Q417
X601 70MHz
X801 65MHz
X802 80MHz
IC401 5V REG
IC402 3.3V REG
IC1202 3V REG
R/V
G/Y
B/U
V R-Y
V Y
V B-Y
V SOG
R/CR CLP
G/Y CLP
B/CB CLP
15K RGB
CLP IN
SDA HS
SCL HS
VID H
RGB H
VID V
RGB V
SYS RESET
R/CR IN2
G/Y IN2
SOG IN2
B/CB IN2
R/CR IN1
G/Y IN1
B/CB IN1
SOG IN1
SDA
SCL
CLAMP
HCS1
HCS2
V1
V2
RESET
STNBY
DS CLK
1/2 CLK
UNLOCK
SYNC/DIV OUT
SYNC IN1
SYNC IN2
M.M
VDO
PLL HD
ADCLK
COAST
IHD
IVD
SDA
SCL
ADDR0
ADDR10
ADDR11
CS
RAS
CAS
WE
LDQM
UDOM
CLK
SS
MCLKSEL
POCLK
MCLK
RST
R7 OD
R0 OD
R7 EV
R0 EV
G7 OD
G0 OD
G7 EV
G0 EV
B7 OD
B0 OD
B7 EV
B0 EV
PICLK
PIHS
PIVS
PIFLD
SDRAM
HS
VS
FLD
SO
SI
SCLK
SIN
SCLK
RESET
CS
VOBA
DCLKI
HSYNC
VSYNC
DISP
D0
D1
D2
D3
GCK1
PLD CS
V MUTE
P DET1
P DET2
V BLK
SYS HS
SYS VS
TDO
TDI
TCK
TMS
CS SC
SC PLL
SRX 4W
STX 4W
SCK 4W
CS OSD
CS PLD
V MUTE
PANEL DET1
PANEL DET2
Q1003
Q1004
A6V
A5V-4
3.3V
3V
D3.3V-2


Q (2/2)
B (3/3)
(MAIN CPU)
H1
H2
S
IC1004 MAIN CPU
IC1007 EEPROM
IC1019 BUS SW
IC1015 BUS SW
IC1005
IC1020
IC1002
IC1011
IC1016
IC1012
IC1010
IC1003 CLOCK
IC1009
IC205 3LINE COMB
IC206 3D COMP
IC207 SYNC SEP
IC208
IC209
IC201 3V REG
IC202 3V REG
IC1017 3.3V REG
IC3018 RS-232C I/F
IC8501 REMOTE CONTROL RECEIVER
IC3023
IC3008 12V REG
IC1501 TEMP SENSOR
IC1502
IC3007
IC1006
IC1018
IC204
IC1001 32.768kHz
X1002 12.288MHz
CN1002
CN1001 (1/2)
CN3002 (3/4)
CN3004
CN3009 (3/3)
CN3002 (4/4)
CN3007
CN3003
CN8501
CN1003
CN1004
CN1005
CN1203
CN1001 (2/2)
CN101
CN3012
CN3011
CN1501
CN8601
J3007 REMOTE (RS-232C)
S3001
S8501
S8601
S8602
S8603
S8604
S8605
S8606
D8504
D8506
D5V-2
Q1005
Q1001
Q1002
Q3024
Q3025
Q3007
Q3008
Q3011
Q3009,3010
Q205
Q207,211
Q206,209
Q210
Q208
Q203,304
Q201
Q200
Q212,217
Q215,218
Q213
Q216
Q214
BUFF
AMP
REG
CURRENT SOURCE
FAN DRV SWITCH
FAN DRV CONT
LED DRV
THERMO
TEMP SENSOR
REMOTE CONTROL RECEIVER
PLASMA DISPLAY PANEL UNIT
Q BOARD CN3002
OPTION
JIG
H STATUS
V STATUS
SYS HS
SYS VS
V BLK
H SYNC
V SYNC
SDA HS
SCL HS
SDA LS
SCL LS
WDTOVF
RES
MD2
FWE
TXD2
RXD2
D5 IRQ
OE
PDP CPU
PDP ACT
PDP IRQ
RGB3
INPUT SEL
LPF SW
A MUTE
L MUTE
SIRCS
Q SENS
CONT1
TU TX
TU RX
TU CLK
TU CS
TU RST
CC VID/YUV
PIC AGC
DEC ENS
SYNC SW
SOG DUTY1
SOG DUTY2
15K RGB
SYSTEM RESET
SC CS
SC PLL SW
4W RX
4W TX
4W CLK
OSD CS
PLD CS
VIDEO MUTE
PANEL DET1
PANEL DET2
LED RED
LED GREEN
LED B
LED A
POWER SW
FAN FB
FAN DRIVE
FAN DETECT
FAN LIMIT
PWM0
FAN DET
XTAL
EXTAL
TEMP1
TEMP2
TEMP3
KEY
POWER
TEMP
RTC CS
RTC IRQ
VEH1
VEH2
VEH3
COL SYS N/M
NTSC/PAL
COMF 2D/3D
COM IN
FSC
COM Y
COM C
A3V
D3V
STBY 5V
STBY 3.3V
MENU
DOWN
UP
ENTER
VOL-
VOL+

Section 7
Diagrams

Note:

- Parts marked " * " differ according to the model/destination. Refer to the mount table for each function.
- The parts marked " # " on schematic diagrams are not mounted.
- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics.
- All electrolytics are in 50 V unless otherwise specified.
- : fusible resistor
- : nonflammable resistor
- Δ : internal component
- : panel designation and adjustment for repair
- Caution when replacing chip parts
  New parts must be attached after removal of the chip.
  Be careful not to heat the minus side of a tantalum capacitor, because it is easily damaged by the heat.

Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	※	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

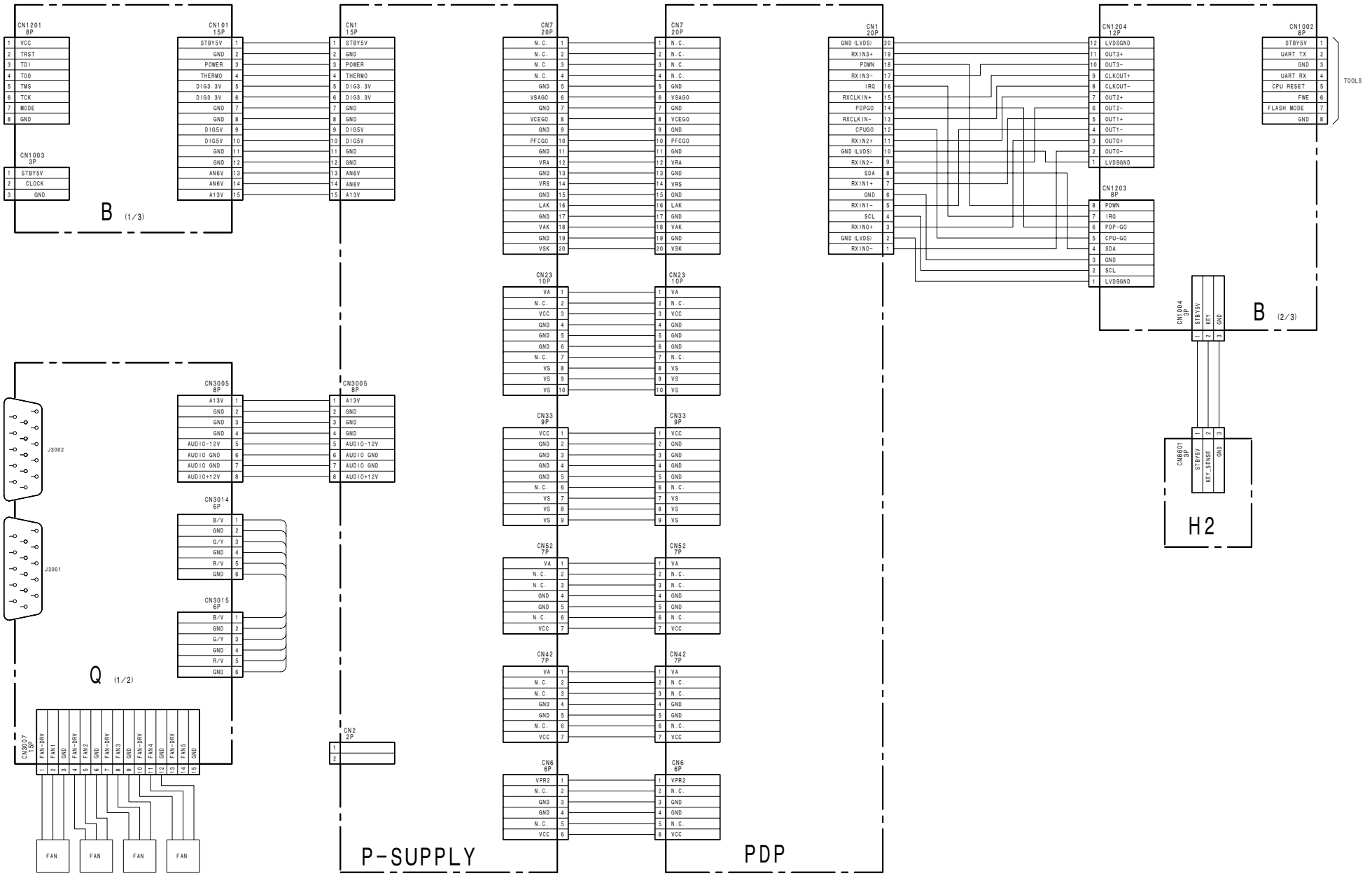
[Measuring conditions, voltage and waveform]

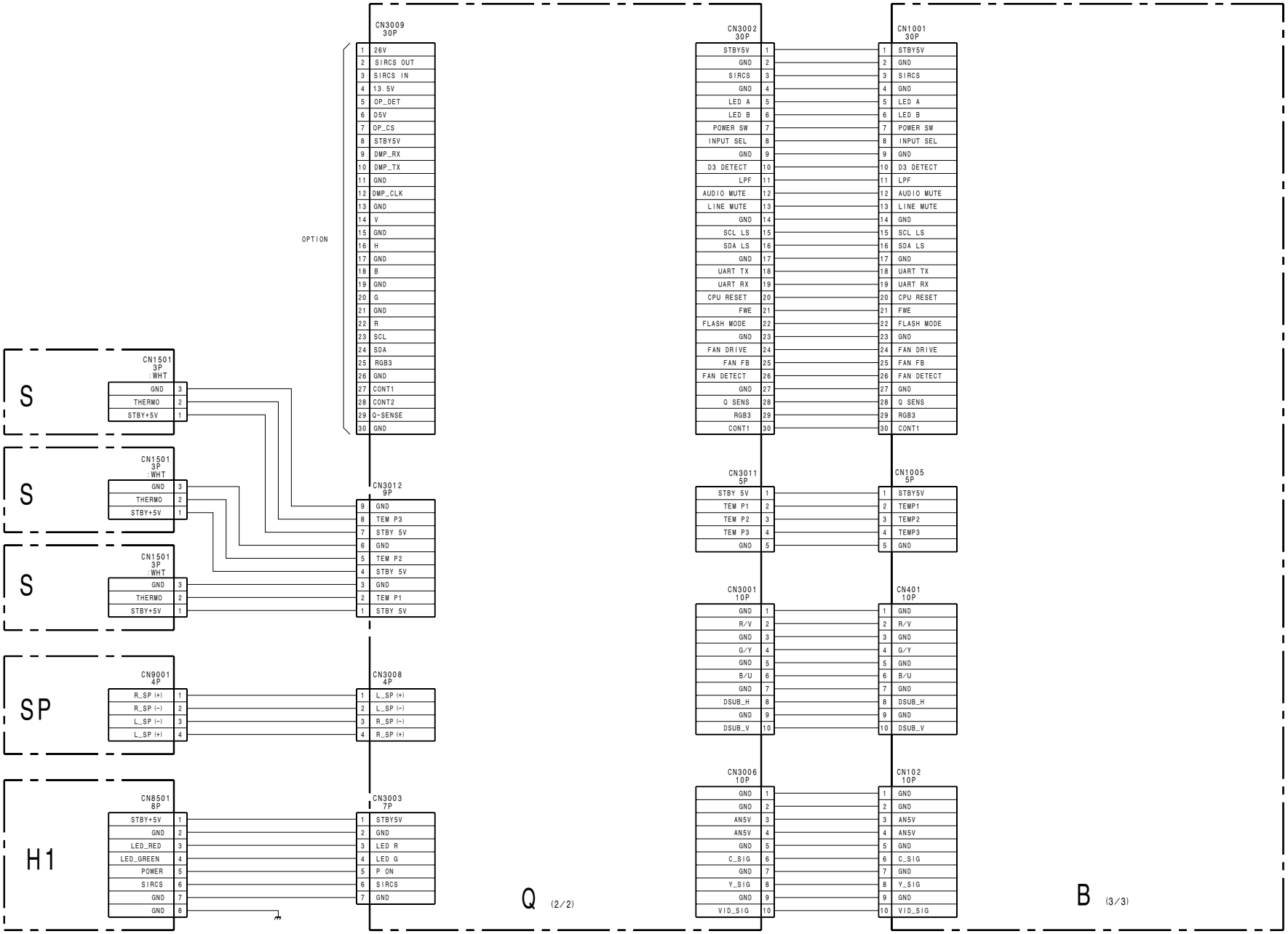
- A voltage value is the reference value between the measurement point and the earth, when the RGB color bar signal is received from the color bar generator. (digital multi-meter used: 10 M ohms/V DC)
- Unit of voltage is V (volt).
  (Voltage variations may occur due to normal production tolerances.)
- V : B line
- No mark : NTSC (3.58 MHz) color bar signal.
- : Signal path.

The components identified marked ⚠ are critical for safety.
Replace only with the part number specified.

Les composants identifiés par la marque ⚠ sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

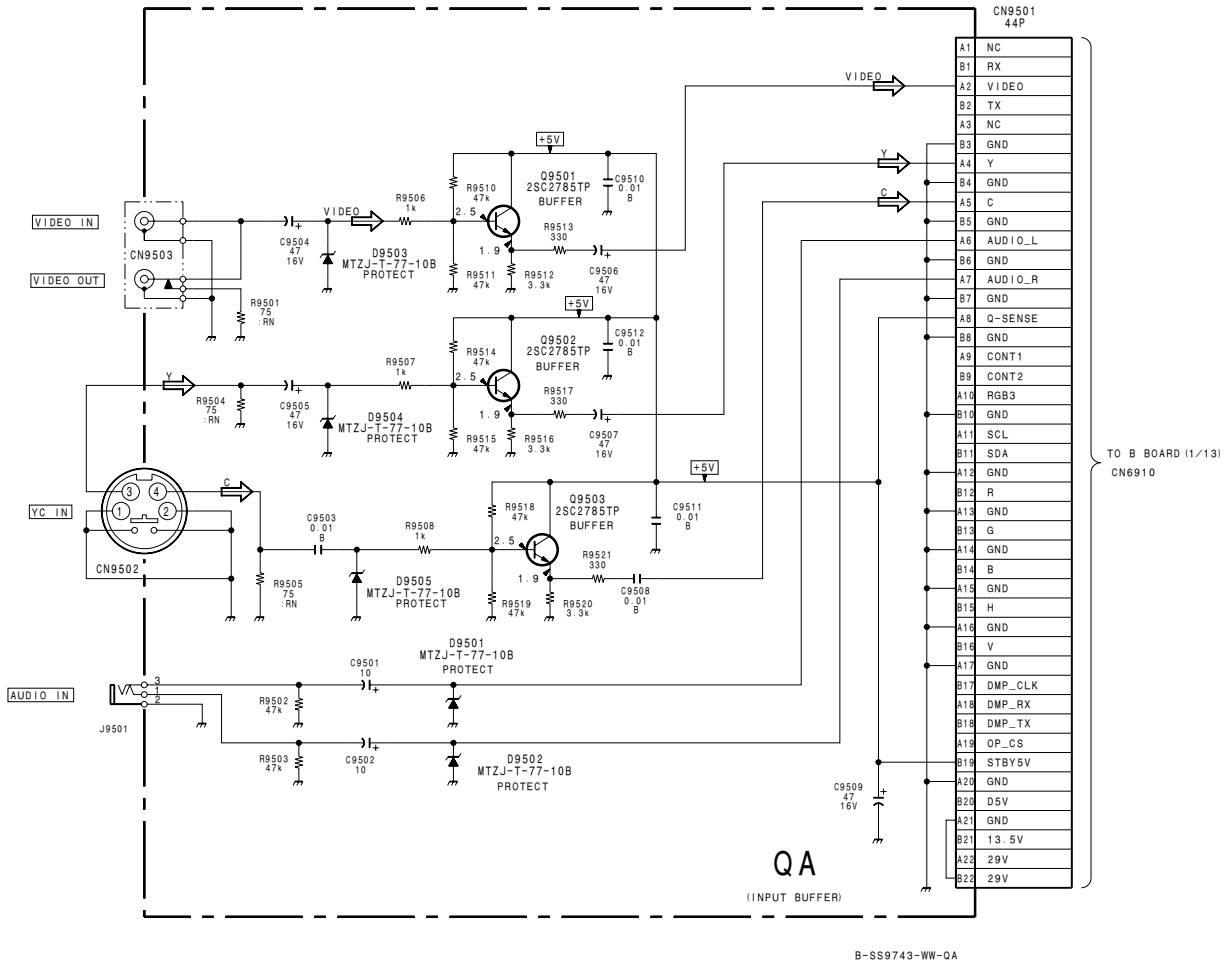
7-1. Frame Schematic Diagrams

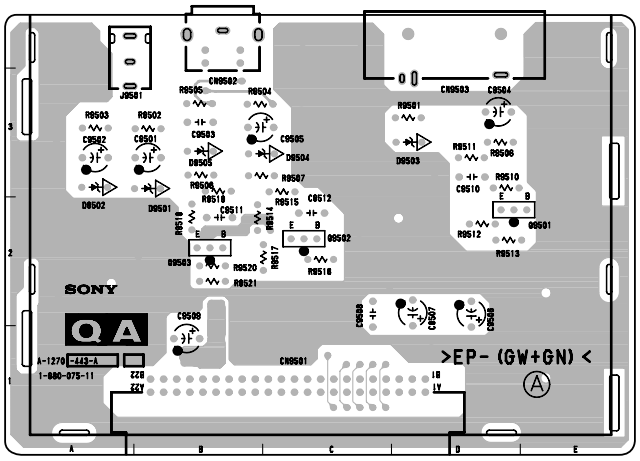




B-SS11065-WW-FRAME-P2

7-2. Schematic Diagrams and Printed Wiring Boards

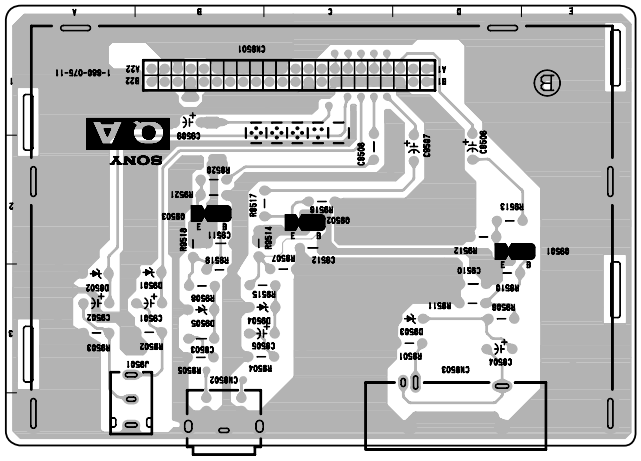




QA BOARD

D9501	B-3
D9502	A-3
D9503	D-3
D9504	C-3
D9505	B-3
Q9501	E-2
Q9502	C-2
Q9503	B-2

QA -A SIDE-
SUFFIX: -11

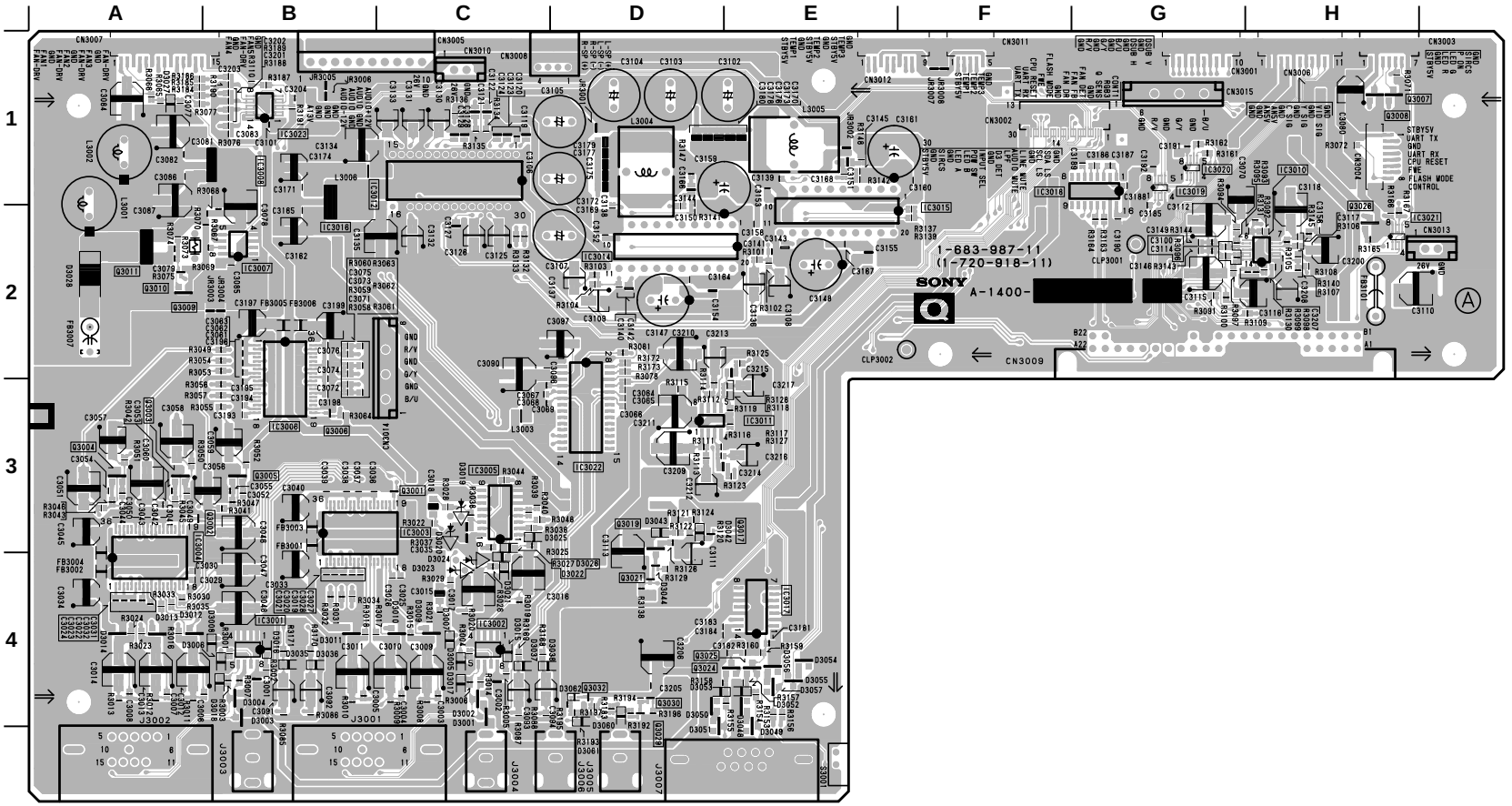


QA -B SIDE-
SUFFIX: -11

Q BOARD

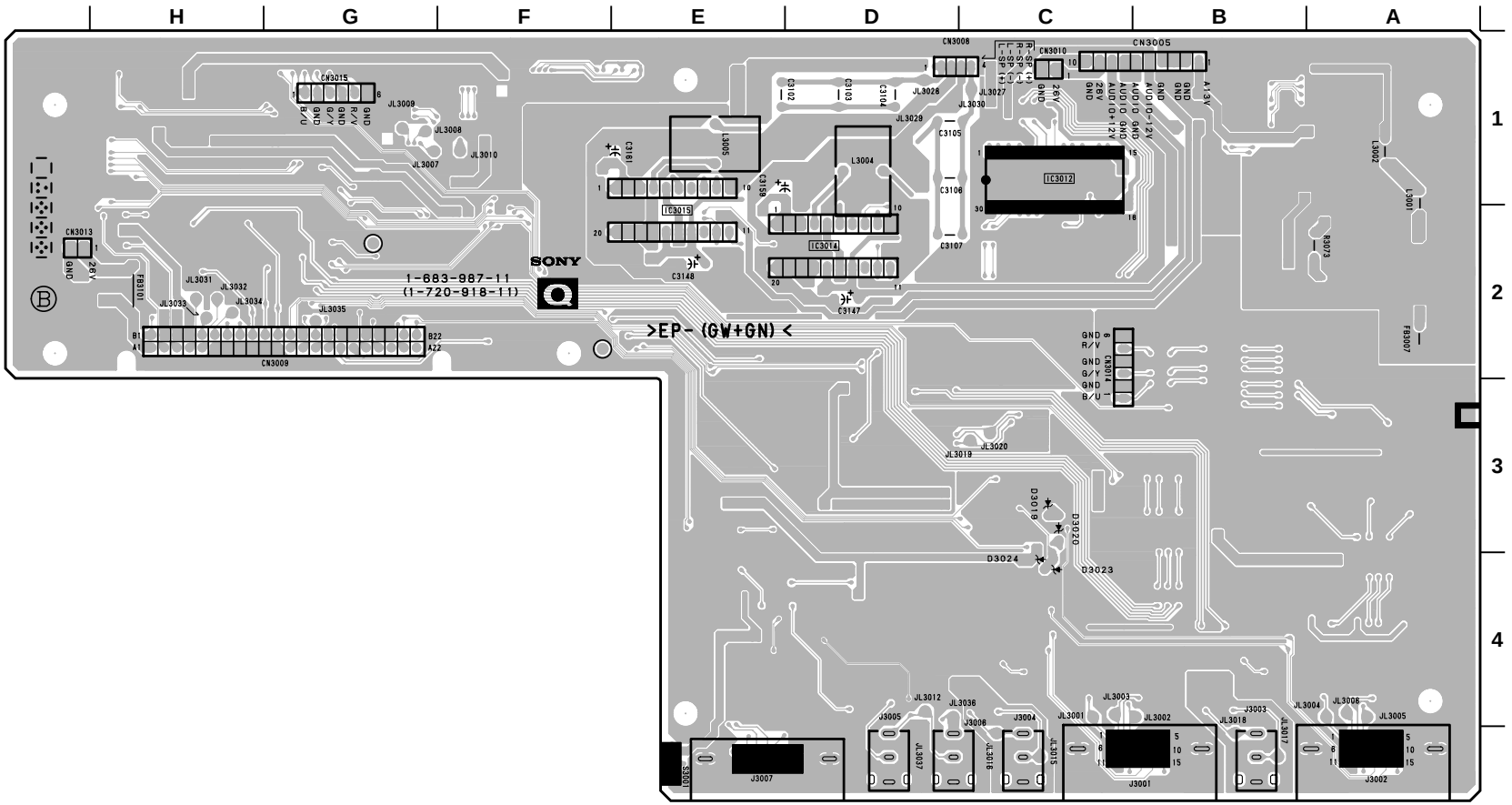
*:B SIDE

D3001	C-4	IC3001	B-4
D3002	C-4	IC3002	C-4
D3003	B-4	IC3003	C-3
D3004	B-4	IC3004	A-4
D3005	C-4	IC3005	C-3
D3006	B-4	IC3006	B-3
D3007	C-4	IC3007	B-1
D3008	B-4	IC3008	B-1
D3009	C-4	IC3010	H-2
D3010	C-4	IC3011	D-3
D3011	B-4	IC3012	C-1
D3012	A-4	IC3014	D-2
D3013	A-4	IC3015	E-2
D3014	A-4	IC3016	B-2
D3015	C-4	IC3017	E-4
D3016	B-4	IC3018	G-1
D3017	C-4	IC3019	G-1
D3018	B-4	IC3020	G-1
D3019	C-3	IC3021	H-1
D3020	C-3	IC3022	D-3
D3021	C-4	IC3023	B-1
D3022	C-4		
D3023	C-4	Q3001	C-3
D3024	C-4	Q3002	A-3
D3025	C-3	Q3003	A-3
D3026	C-3	Q3004	A-3
D3027	A-1	Q3005	B-3
D3028	A-2	Q3006	B-3
D3035	B-4	Q3007	H-1
D3036	B-4	Q3008	H-1
D3037	C-4	Q3009	A-2
D3038	C-4	Q3010	A-2
D3042	D-3	Q3011	A-2
D3043	D-3	Q3017	D-3
D3044	D-4	Q3019	D-3
D3048	E-4	Q3021	D-4
D3049	E-4	Q3024	E-4
D3050	D-4	Q3025	E-4
D3051	D-4	Q3026	H-2
D3052	E-4	Q3029	D-4
D3053	D-4	Q3030	D-4
D3054	E-4	Q3032	D-4
D3055	E-4		
D3056	E-4		
D3057	E-4		
D3060	D-4		
D3061	D-4		
D3062	D-4		

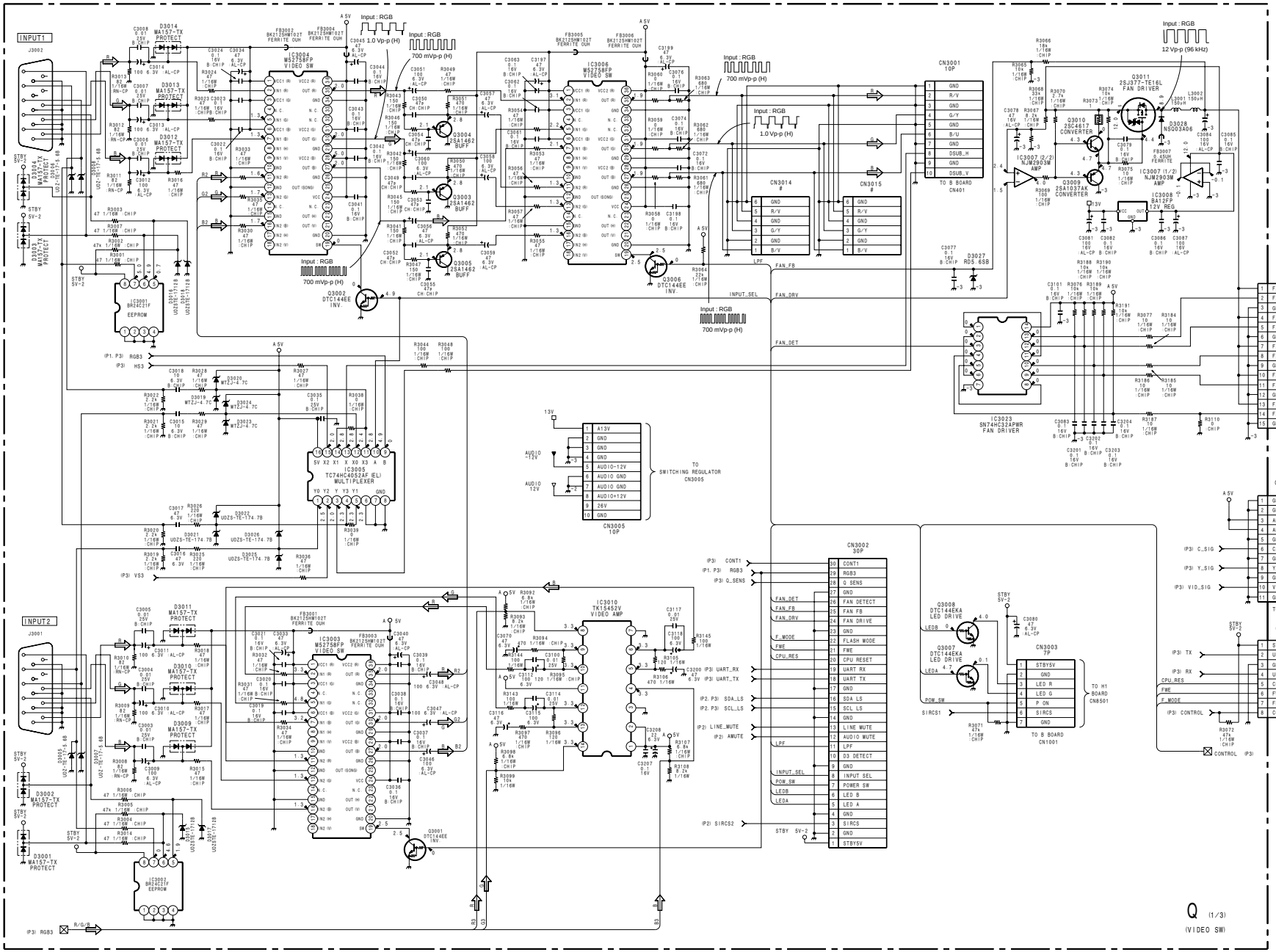


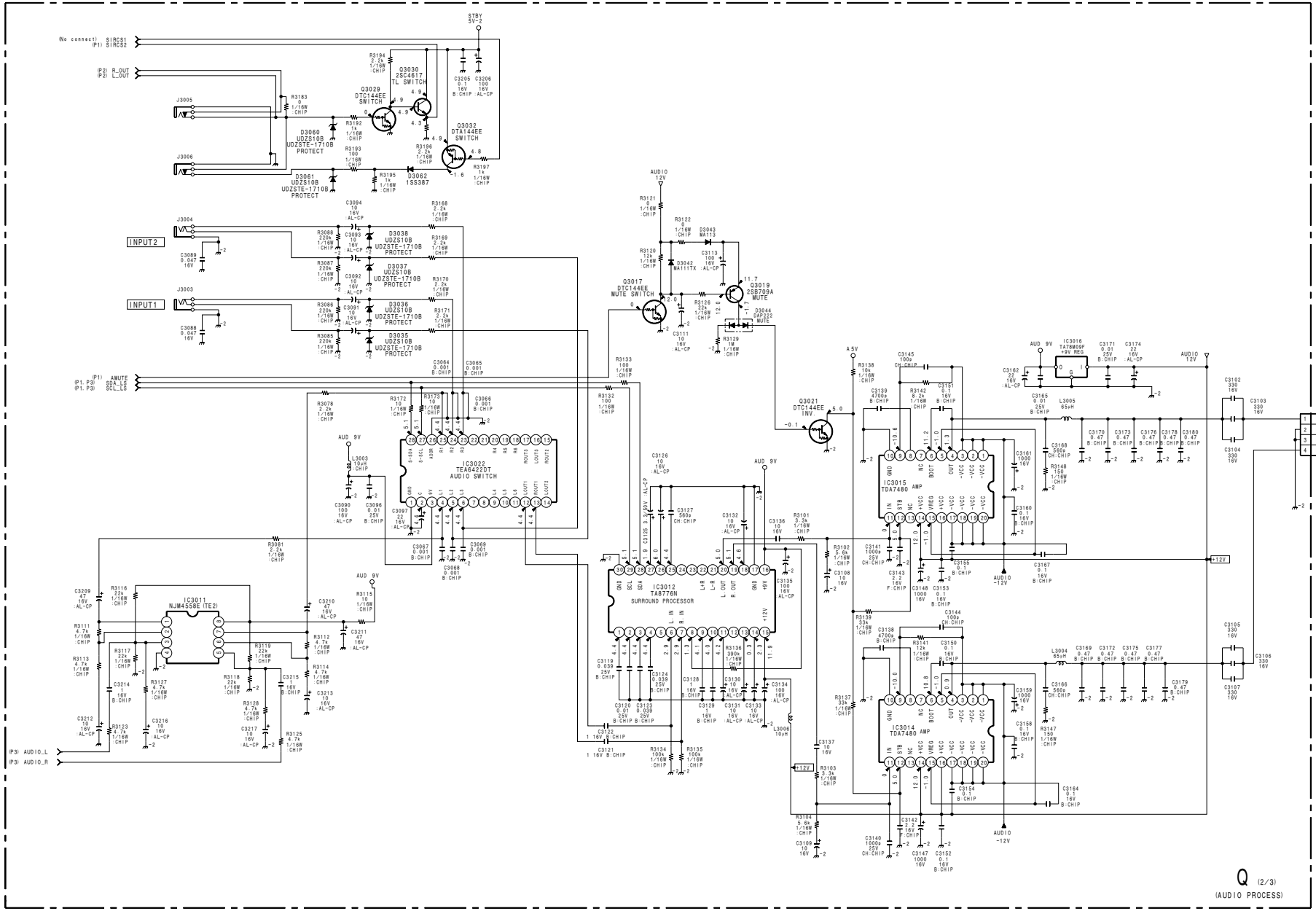
Q -A SIDE-

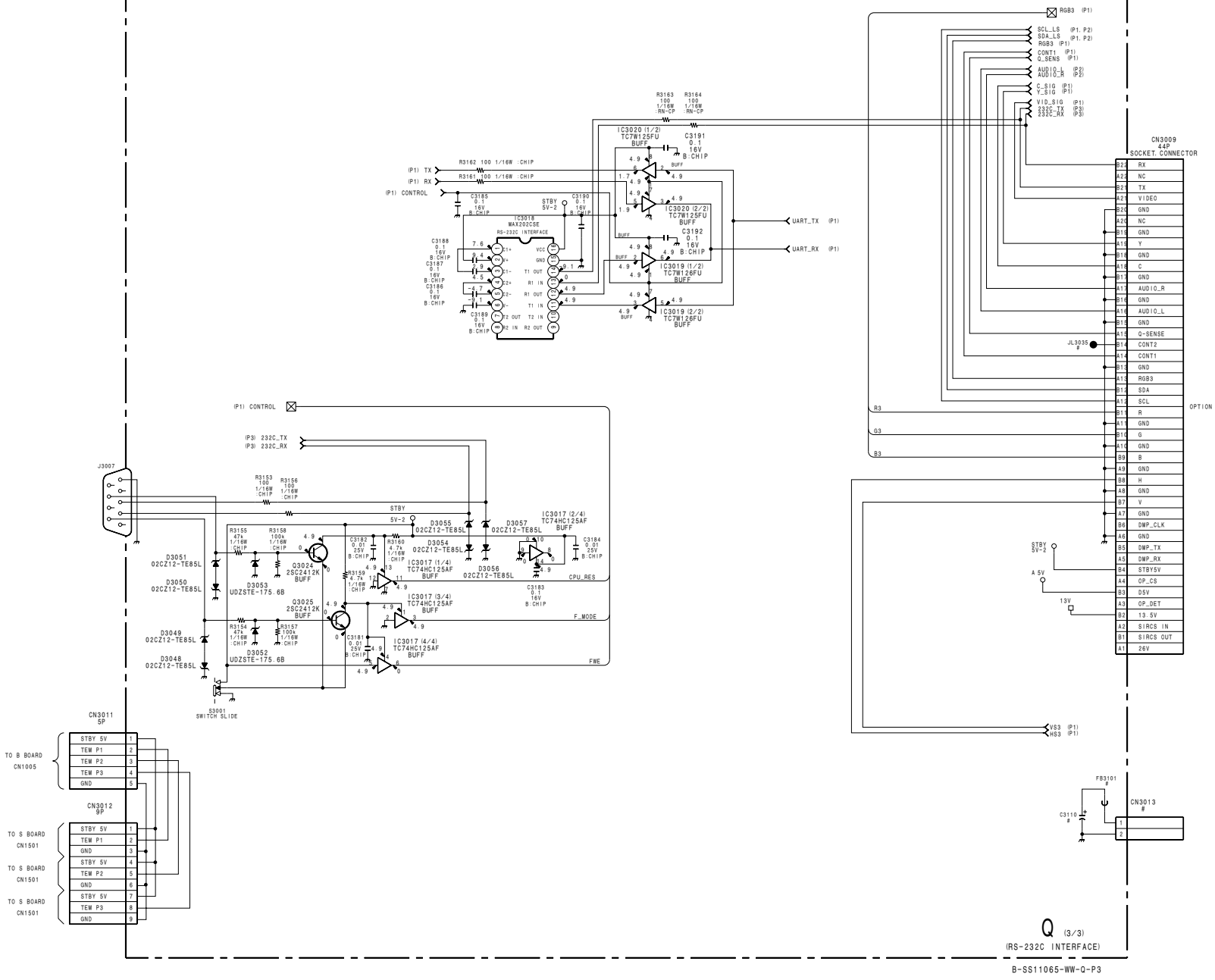
SUFFIX: -11



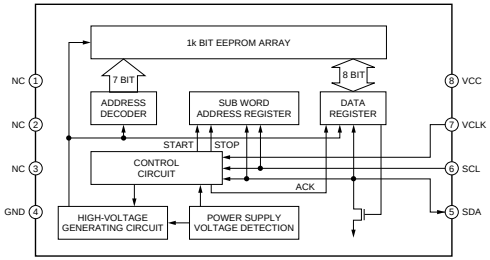
Q -B SIDE-
SUFFIX: -11


INPUT1
INPUT2
Input : RGB
700 mVp-p (H)
1.0 Vp-p (H)
700 mVp-p (P)
12 Vp-p (96 kHz)
IC3004 M52758FP VIDEO SW
IC3006 M52758FP VIDEO SW
IC3003 M52758FP VIDEO SW
IC3010 TK15452V VIDEO AMP
IC3005 TC74HC4052AF(EL) MULTIPLEXER
IC3023 SN74HC32APWR FAN DRIVER
IC3007 (1/2) NJM2903M AMP
IC3007 (2/2) NJM2903M AMP
IC3008 BA12FP 12V REG
IC3001 BR24C21F EEPROM
IC3002 BR24C21F EEPROM
Q3004 2SA1462 BUFF
Q3003 2SA1462 BUFF
Q3005 2SA1462 BUFF
Q3002 DTC144EE INV.
Q3006 DTC144EE INV.
Q3001 DTC144EE INV.
Q3008 DTC144EKA LED DRIVE
Q3007 DTC144EKA LED DRIVE
Q3010 2SC4617 CONVERTER
Q3009 2SA1037AK CONVERTER
Q3011 2SJ377-TE16L FAN DRIVER
D3028 NSQ03A6
D3027 RD5.6SB
CN3001 10P
CN3014 #
CN3015 #
CN3005 10P
CN3002 30P
CN3007 15P
CN3006 11P
CN3004 8P
CN3003 7P
TO B BOARD CN401
TO SWITCHING REGULATOR CN3005
TO B BOARD CN102
TO TOOL
TO H1 BOARD CN8501
TO B BOARD CN1001
Q (1/3)
(VIDEO SW)
B-SS11065-WW-Q-P1

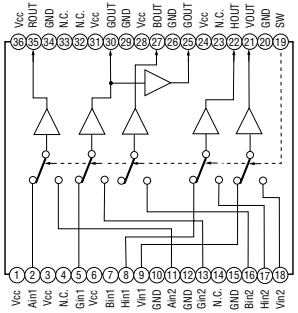

Q (2/3)
(AUDIO PROCESS)
B-SS11065-WW-Q-P2
IC3011 NJM4558E (TE2)
IC3012 TA8776N SURROUND PROCESSOR
IC3022 TEA6422DT AUDIO SWITCH
IC3015 TDA7480 AMP
IC3014 TDA7480 AMP
IC3016 TA78M09F +9V REG
INPUT1
INPUT2
TO SP BOARD CN9001
CN3008 4P
L_SP (+)
L_SP (-)
R_SP (-)
R_SP (+)
AUDIO 12V
AUDIO -12V
AUD 9V
A5V
+12V
STBY 5V-2
Q3017 DTC144EE MUTE SWITCH
Q3019 2SB709A MUTE
Q3021 DTC144EE INV.
Q3029 DTC144EE SWITCH
Q3030 2SC4617 TL SWITCH
Q3032 DTA144EE SWITCH
D3044 DAP222 MUTE
(P1) AMUTE
(P1, P3) SDA_LS
(P1, P3) SCL_LS
(P3) AUDIO_L
(P3) AUDIO_R


RGB3 (P1)
SCL_LS (P1, P2)
SDA_LS (P1, P2)
RGB3 (P1)
CONT1 (P1)
Q_SENS (P1)
AUDIO_L (P2)
AUDIO_R (P2)
C_SIG (P1)
Y_SIG (P1)
VID_SIG (P1)
232C_TX (P3)
232C_RX (P3)
CN3009
44P
SOCKET. CONNECTOR
RX
NC
TX
VIDEO
GND
NC
GND
Y
GND
C
GND
AUDIO_R
GND
AUDIO_L
GND
Q-SENSE
CONT2
CONT1
GND
RGB3
SDA
SCL
R
GND
G
GND
B
GND
H
GND
V
GND
DMP_CLK
GND
DMP_TX
DMP_RX
STBY5V
OP_CS
D5V
OP_DET
13.5V
SIRCS IN
SIRCS OUT
26V
OPTION
JL3035
R3
G3
B3
STBY 5V-2
A 5V
13V
VS3 (P1)
HS3 (P1)
R3163 100 1/16W :RN-CP
R3164 100 1/16W :RN-CP
IC3020 (1/2) TC7W125FU BUFF
C3191 0.1 16V B:CHIP
IC3020 (2/2) TC7W125FU BUFF
C3192 0.1 16V B:CHIP
IC3019 (1/2) TC7W126FU BUFF
IC3019 (2/2) TC7W126FU BUFF
(P1) TX
(P1) RX
(P1) CONTROL
R3162 100 1/16W :CHIP
R3161 100 1/16W :CHIP
C3185 0.1 16V B:CHIP
C3190 0.1 16V B:CHIP
STBY 5V-2
IC3018 MAX202CSE
RS-232C INTERFACE
C3188 0.1 16V B:CHIP
C3187 0.1 16V B:CHIP
C3186 0.1 16V B:CHIP
C3189 0.1 16V B:CHIP
UART_TX (P1)
UART_RX (P1)
(P1) CONTROL
(P3) 232C_TX
(P3) 232C_RX
J3007
R3153 100 1/16W :CHIP
R3156 100 1/16W :CHIP
STBY 5V-2
D3055 02CZ12-TE85L
D3057 02CZ12-TE85L
IC3017 (2/4) TC74HC125AF BUFF
D3051 02CZ12-TE85L
D3050 02CZ12-TE85L
D3053 UDZSTE-175.6B
D3049 02CZ12-TE85L
D3048 02CZ12-TE85L
D3052 UDZSTE-175.6B
R3155 47k 1/16W :CHIP
R3158 100x 1/16W :CHIP
Q3024 2SC2412K BUFF
Q3025 2SC2412K BUFF
R3154 47k 1/16W :CHIP
R3157 100x 1/16W :CHIP
C3182 0.01 25V B:CHIP
R3160 4.7k 1/16W :CHIP
D3054 02CZ12-TE85L
D3056 02CZ12-TE85L
C3184 0.01 25V B:CHIP
IC3017 (1/4) TC74HC125AF BUFF
R3159 4.7k 1/16W :CHIP
C3183 0.1 16V B:CHIP
IC3017 (3/4) TC74HC125AF BUFF
C3181 0.01 25V B:CHIP
IC3017 (4/4) TC74HC125AF BUFF
CPU_RES
F_MODE
FWE
S3001 SWITCH SLIDE
CN3011
5P
STBY 5V
TEM P1
TEM P2
TEM P3
GND
TO B BOARD CN1005
CN3012
9P
STBY 5V
TEM P1
GND
STBY 5V
TEM P2
GND
STBY 5V
TEM P3
GND
TO S BOARD CN1501
TO S BOARD CN1501
TO S BOARD CN1501
FB3101
C3116
CN3013
Q (3/3)
(RS-232C INTERFACE)
B-SS11065-WW-Q-P3

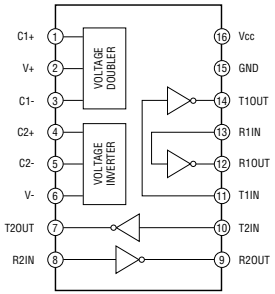
Q (1/3) BR24C21F (IC3001, IC3002)



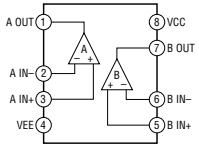
Q (1/3) M52758FP (IC3003, IC3004, IC3006)


Vcc ROUT GND N.C. N.C. Vcc GOUT GND Vcc BOUT GND GOUT Vcc N.C. HOUT VOUT GND SW
Vcc Ain1 Vcc N.C. Gin1 Vcc Bin1 Hin1 Vin1 GND Ain2 GND Gin2 N.C. GND Bin2 Hin2 Vin2

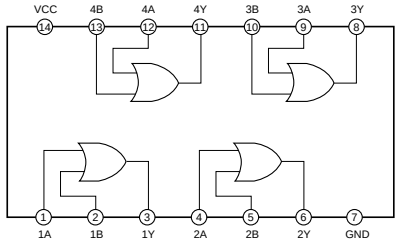
Q (3/3) MAX202CSE (IC3018)



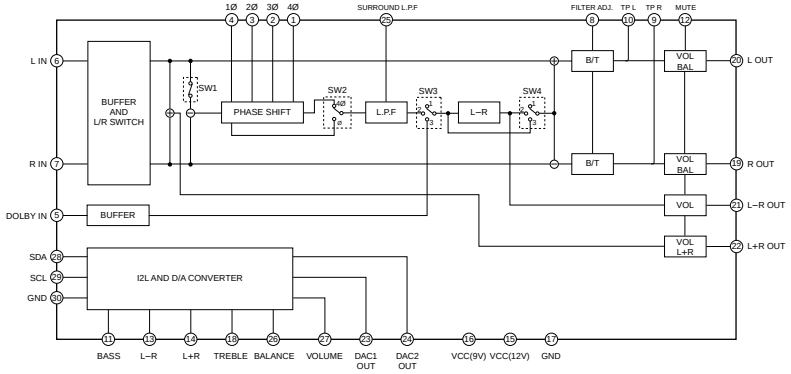
Q (2/3) NJM4558E (IC3009, IC3013)



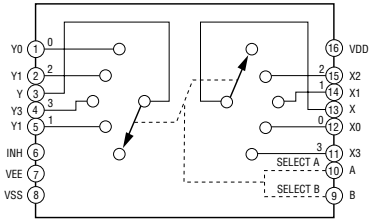
Q (1/3) SN74HC32APWR (IC3023)



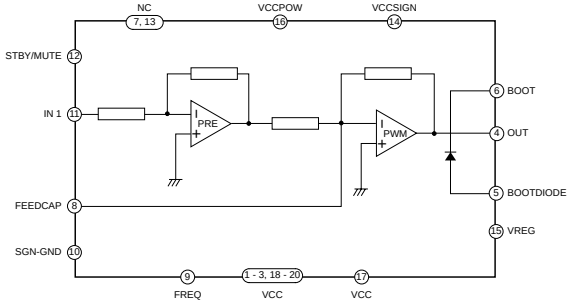
Q (2/3) TA8776N (IC3012)



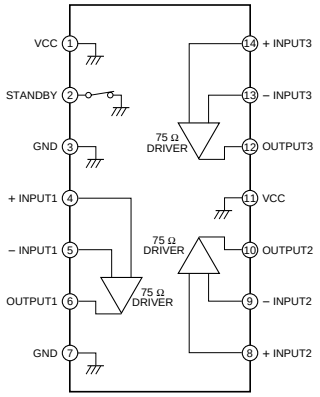
Q (1/3) TC74HC4052AF (EL) (IC3005)



Q (2/3) TDA7480 (IC3014, IC3015)



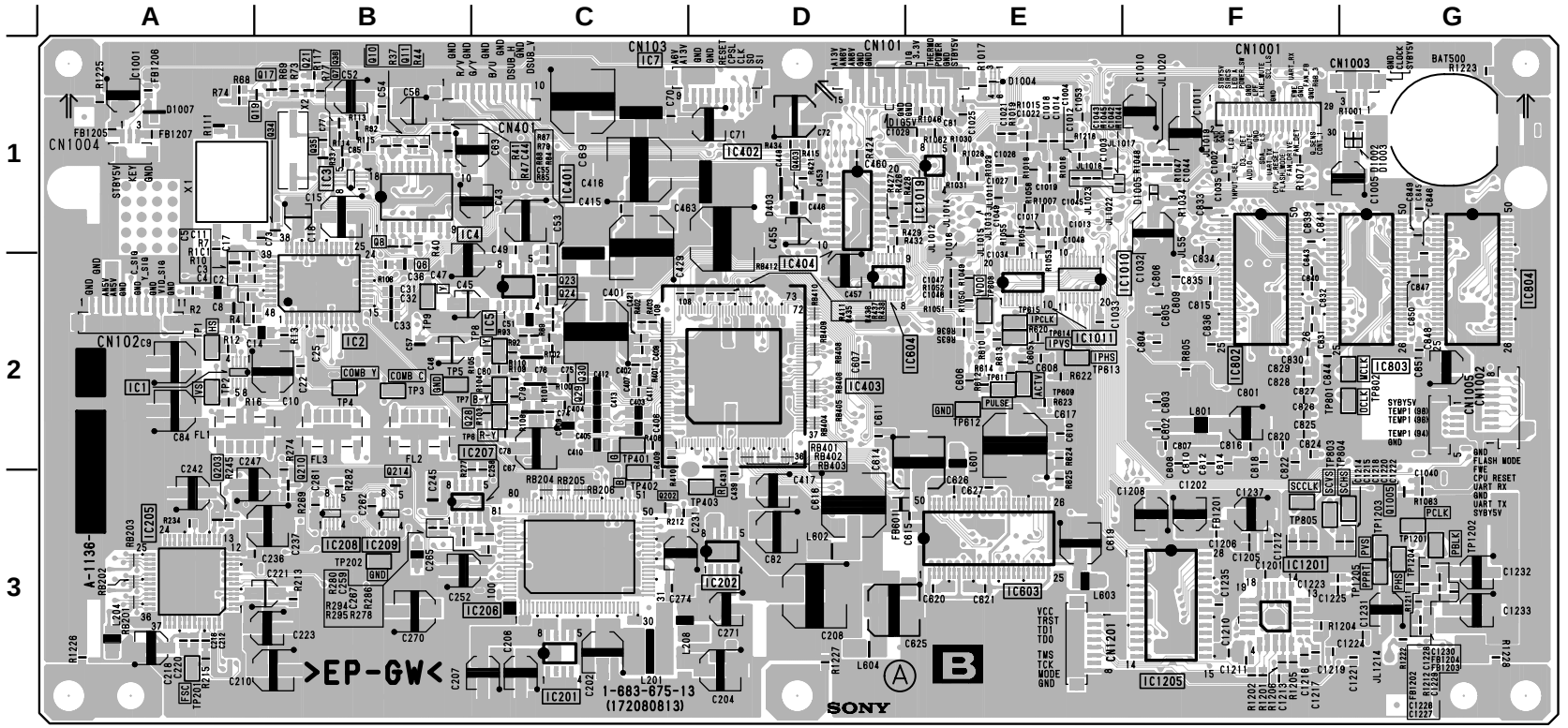
Q (1/3) TK15452V (IC3010)



B BOARD

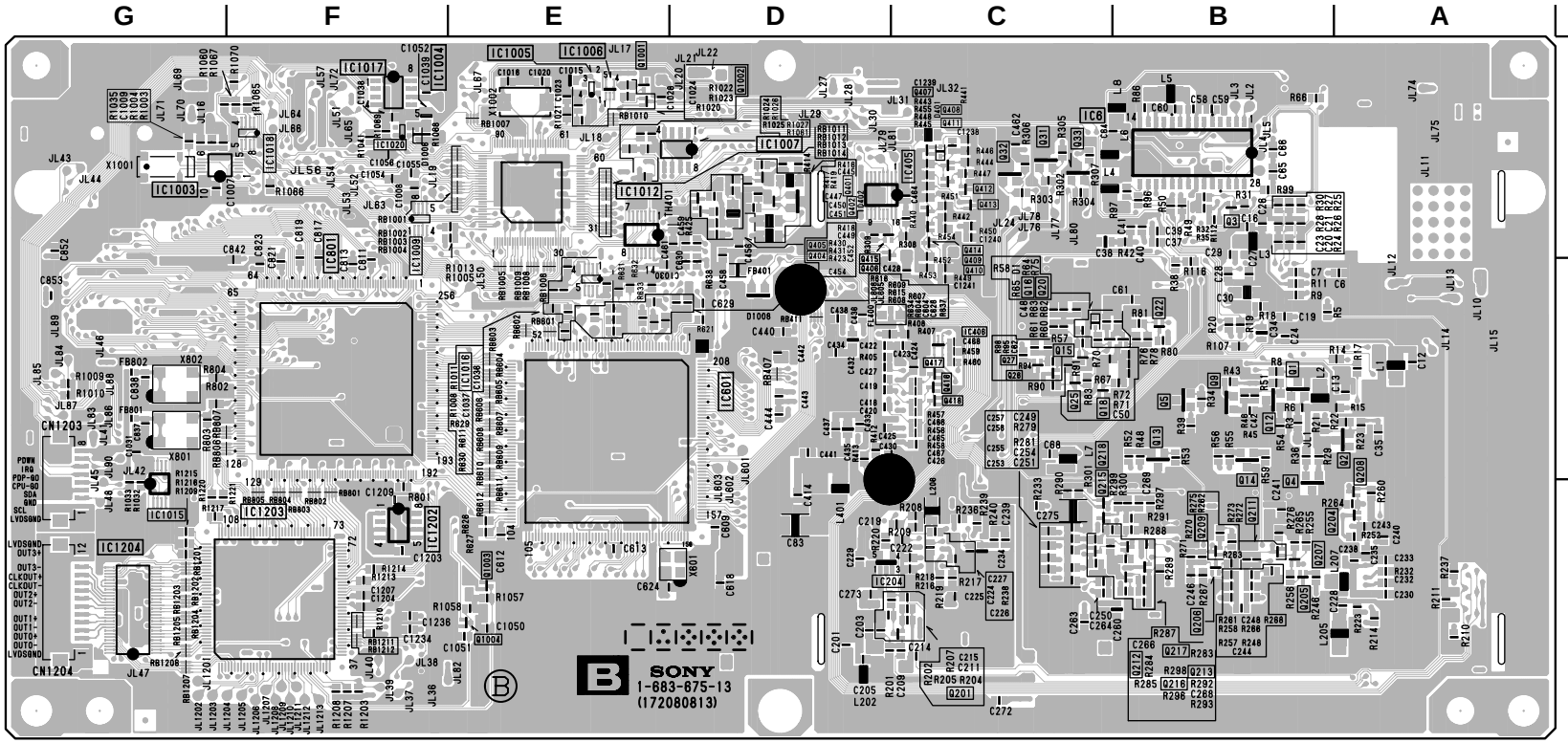
*:B SIDE

D1	C-2	Q32	C-1
D401	C-1	Q33	C-1
D402	D-1	Q34	B-1
D403	D-1	Q35	B-1
D1002	G-1	Q36	B-1
D1003	G-1	Q201	C-3
D1004	E-1	Q202	C-3
D1005	F-1	Q203	A-3
D1006	F-1	Q204	A-3
D1007	A-1	Q205	B-3
D1008	*D-2	Q206	B-3
		Q207	B-3
IC1	A-2	Q208	A-3
IC2	B-2	Q209	B-3
IC3	B-1	Q210	B-3
IC4	C-1	Q211	B-3
IC5	C-2	Q212	C-3
IC6	B-1	Q213	B-3
IC7	C-1	Q214	B-3
IC201	C-3	Q215	C-3
IC202	D-3	Q216	B-3
IC204	D-3	Q217	B-3
IC205	A-3	Q218	C-3
IC206	C-3	Q401	D-1
IC207	B-3	Q402	D-1
IC208	B-3	Q403	D-1
IC209	B-3	Q404	D-1
IC401	C-1	Q405	D-1
IC402	D-1	Q406	D-1
IC403	D-2	Q407	C-1
IC404	D-2	Q408	C-1
IC405	D-1	Q409	C-1
IC406	C-2	Q410	C-1
IC601	E-2	Q411	C-1
IC603	E-3	Q412	C-1
IC604	D-2	Q413	C-1
IC801	F-2	Q414	C-1
IC802	F-2	Q415	D-1
IC803	G-2	Q416	C-2
IC804	G-2	Q417	C-2
IC1003	G-1	Q418	C-2
IC1004	E-1	Q1001	E-1
IC1005	E-1	Q1002	D-1
IC1006	E-1	Q1003	E-3
IC1007	D-1	Q1004	E-3
IC1009	F-1	Q1005	G-3
IC1010	E-2		
IC1011	E-2	TP1	A-2
IC1012	E-1	TP2	A-2
IC1015	G-3	TP3	B-2
IC1016	E-2	TP4	B-2
IC1017	F-1	TP5	B-2
IC1018	F-1	TP6	C-2
IC1019	E-1	TP7	C-2
IC1020	F-1	TP8	C-2
IC1201	F-3	TP9	B-2
IC1202	F-3	TP201	A-3
IC1203	F-3	TP202	B-3
IC1204	G-3	TP401	C-2
IC1205	F-3	TP402	C-3
		TP403	D-3
Q1	B-2	TP608	E-2
Q2	A-2	TP609	E-2
Q3	B-1	TP611	E-2
Q4	B-3	TP612	E-2
Q5	B-2	TP613	E-2
Q6	B-2	TP614	E-2
Q7	B-1	TP615	E-2
Q8	B-1	TP801	G-2
Q9	B-2	TP802	G-2
Q10	B-1	TP803	F-3
Q11	B-1	TP804	G-3
Q12	B-2	TP805	F-3
Q13	B-2	TP1201	G-3
Q14	B-2	TP1202	G-3
Q15	C-2	TP1203	G-3
Q16	C-2	TP1204	G-3
Q17	B-1	TP1205	G-3
Q18	C-2		
Q19	B-1		
Q20	B-2		
Q21	B-1		
Q22	B-2		
Q23	C-2		
Q24	C-2		
Q25	C-2		
Q26	C-2		
Q27	C-2		
Q28	C-2		
Q29	C-2		
Q30	C-2		
Q31	C-1		

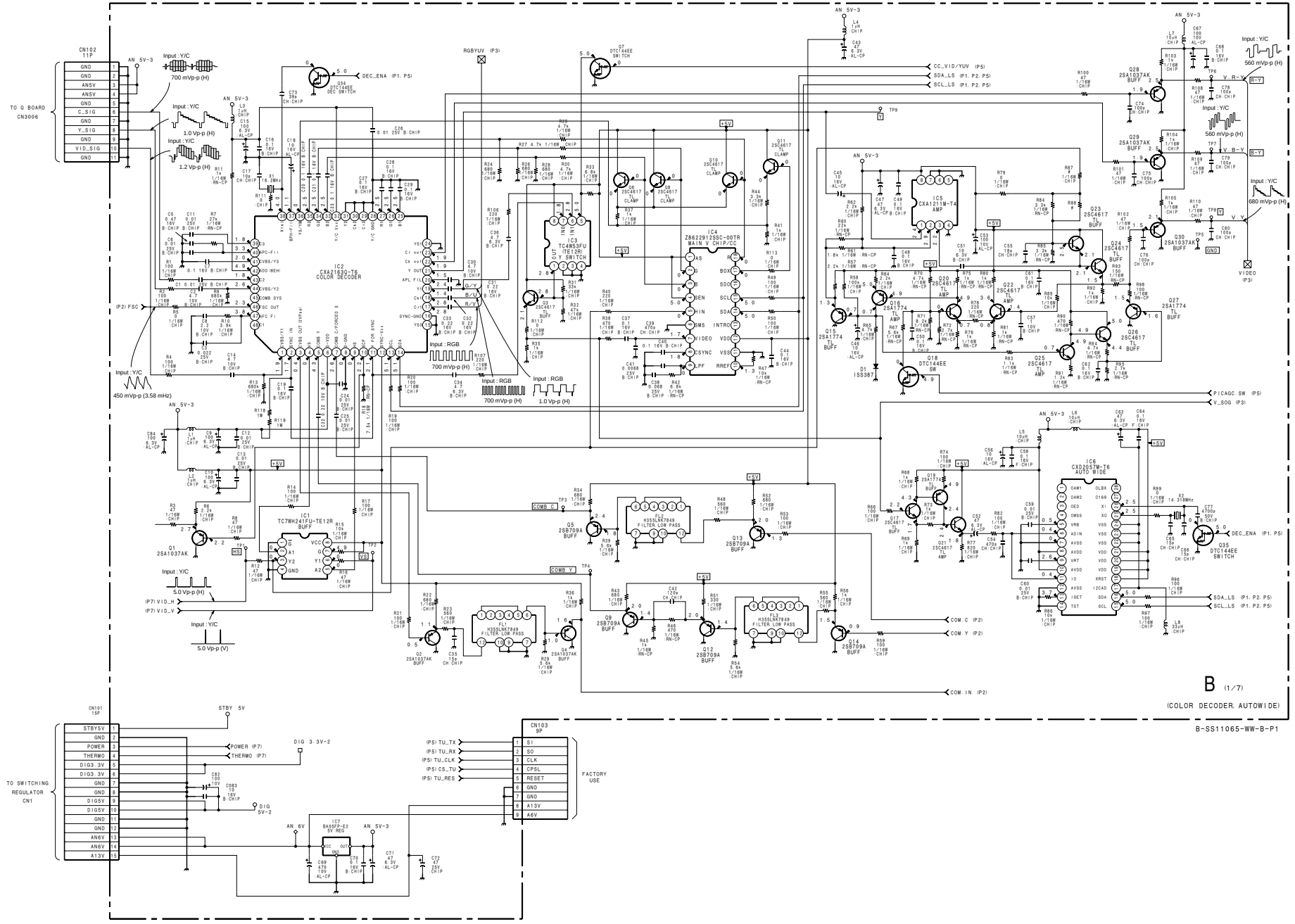


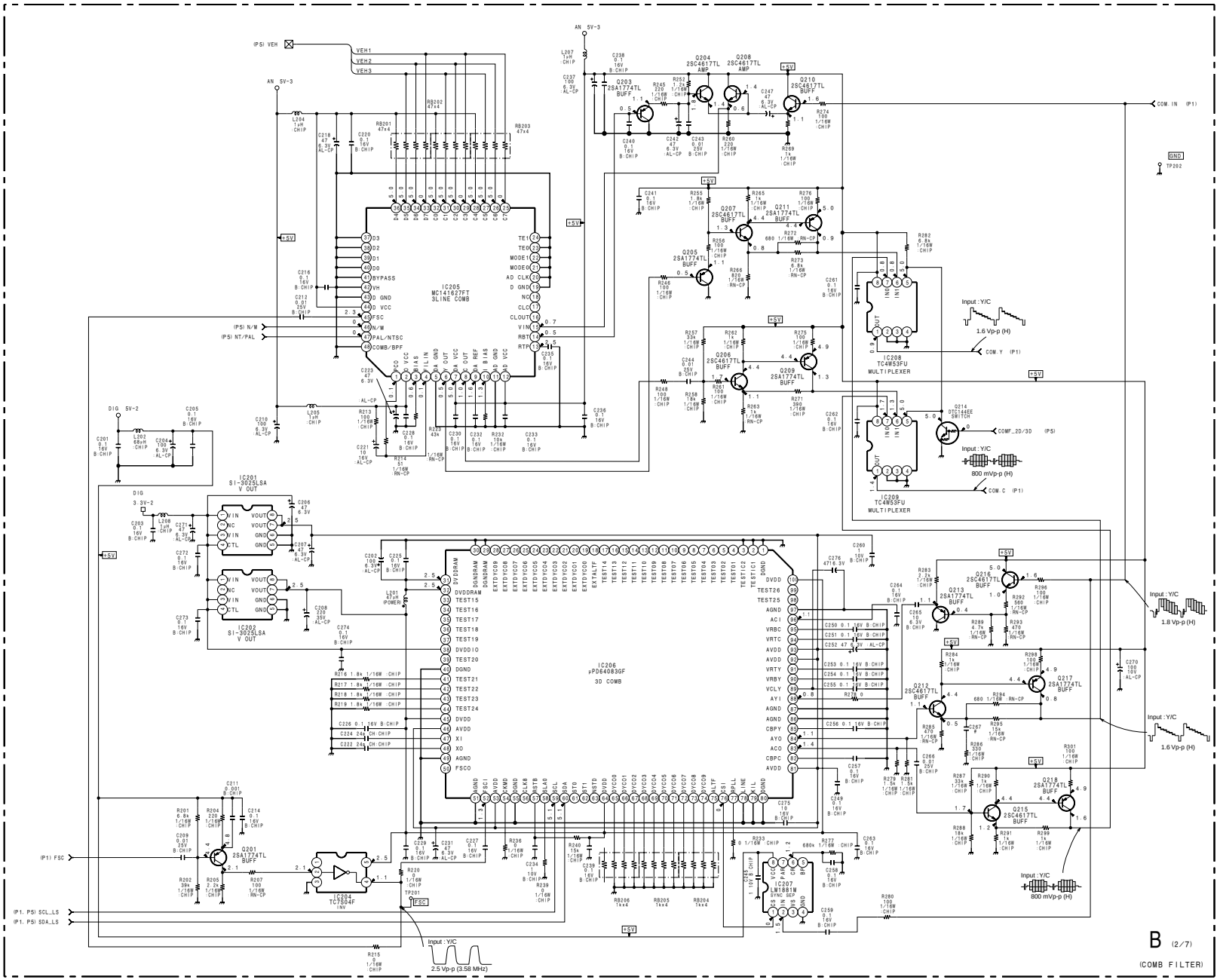
B -A SIDE-

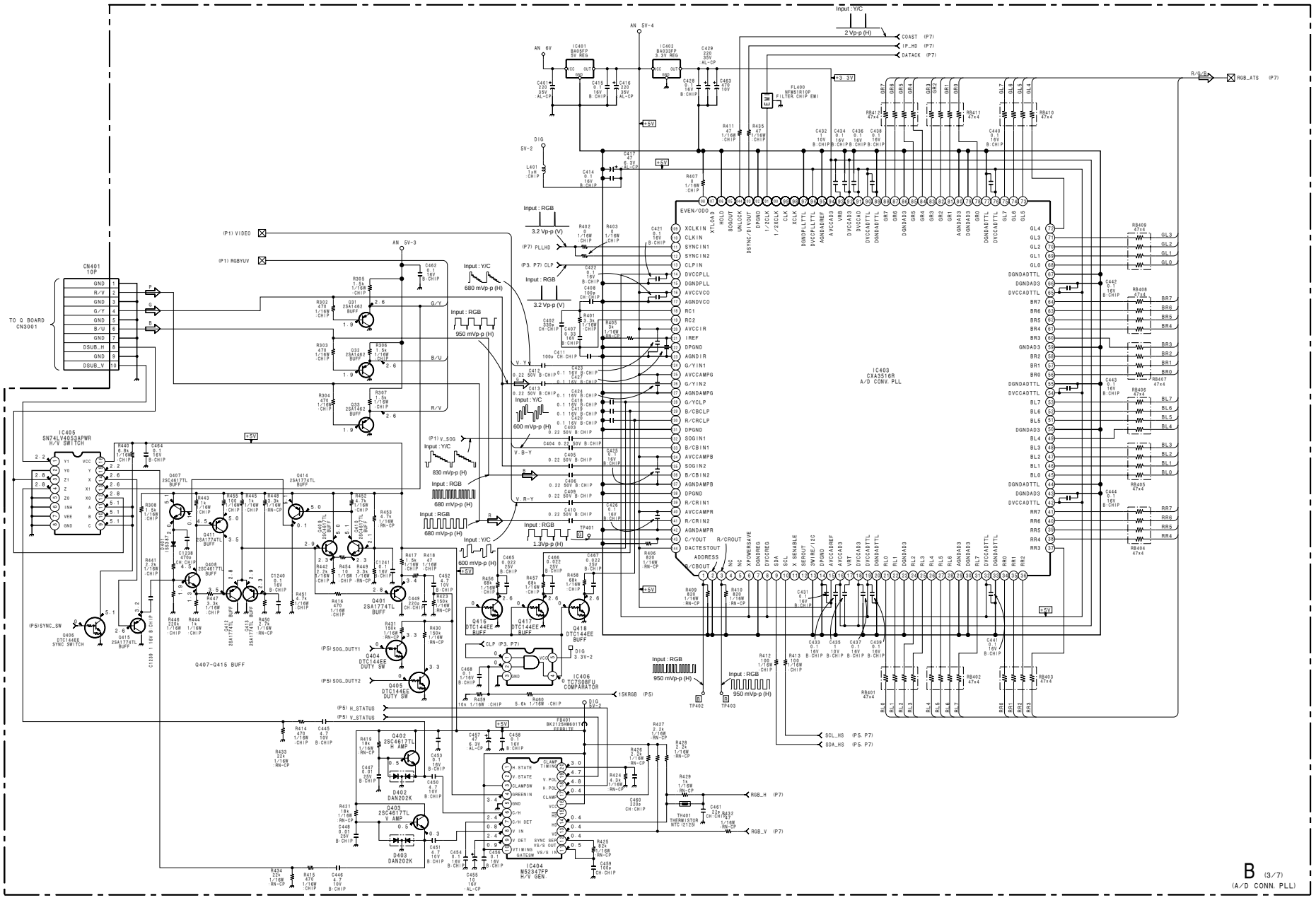
SUFFIX: -13

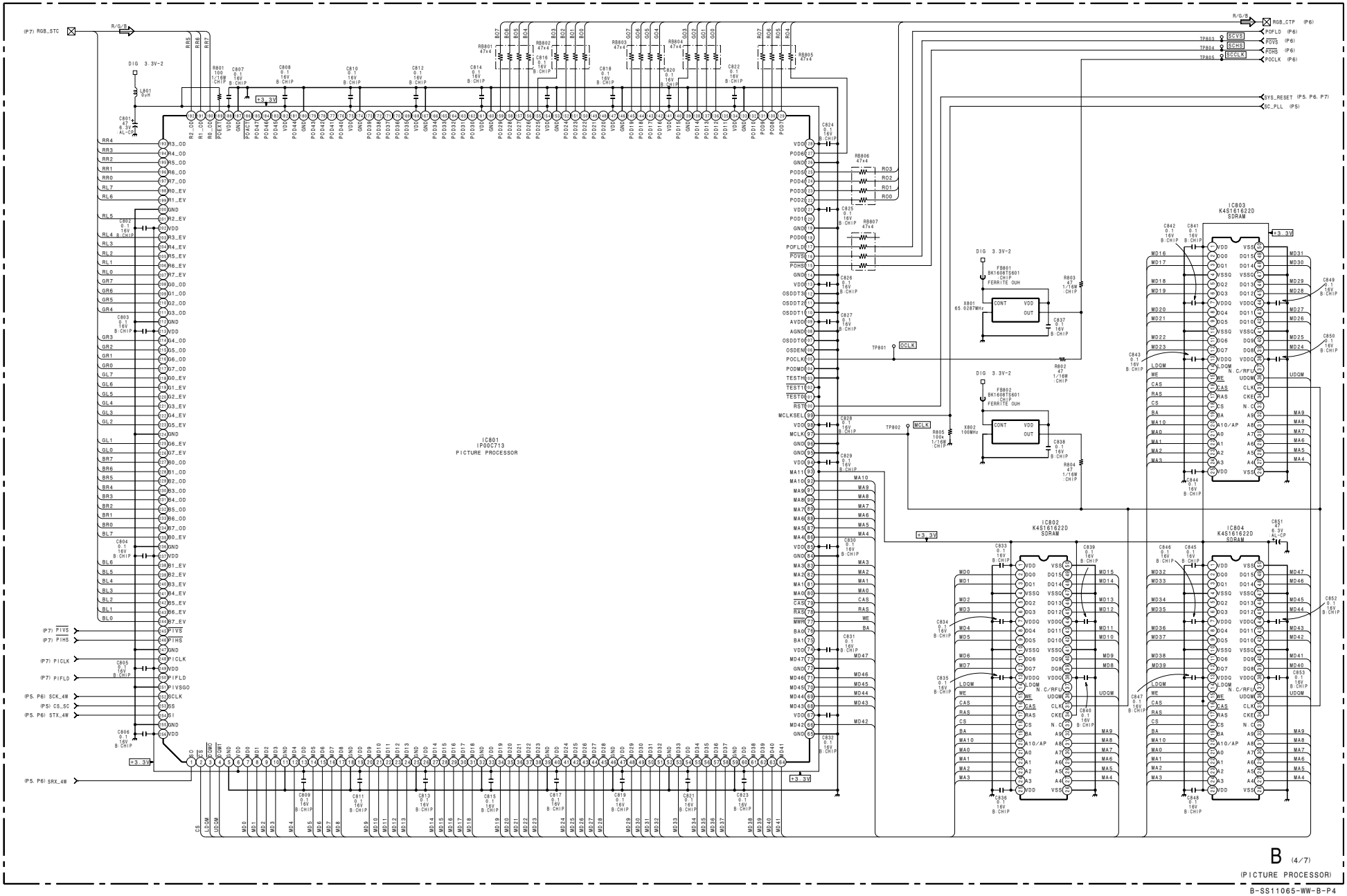


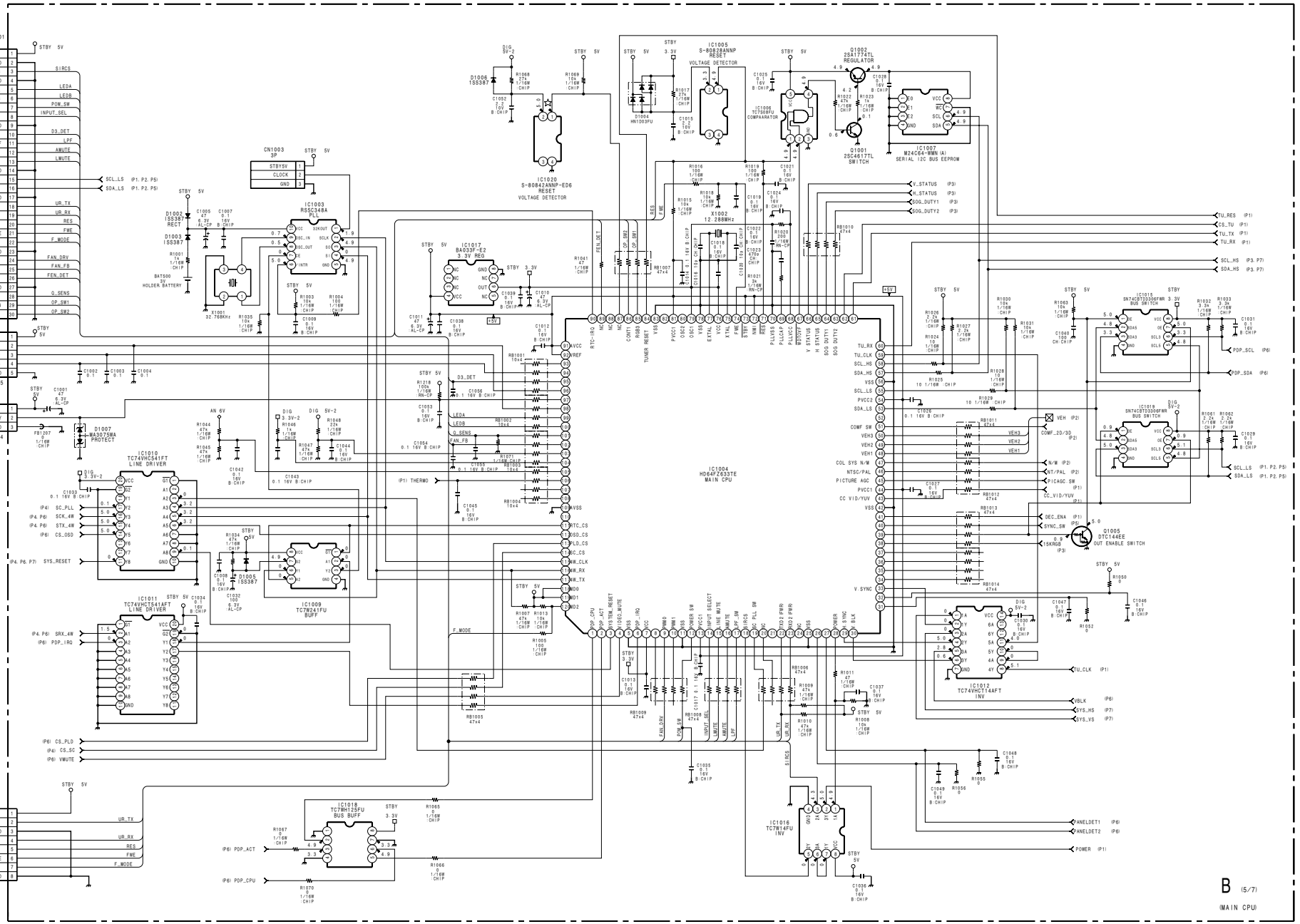
B -B SIDE-
SUFFIX: -13

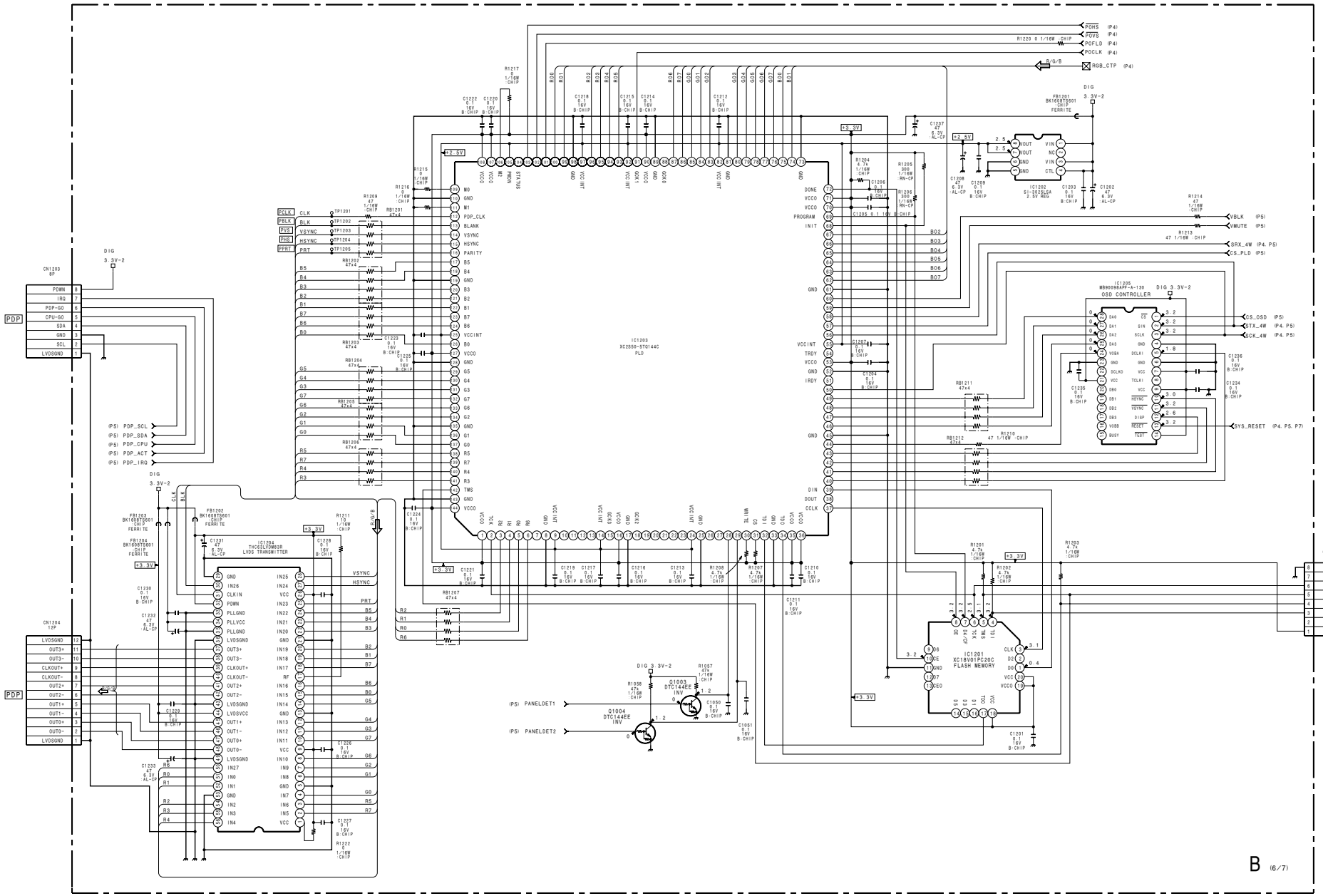

B (1/7)
(COLOR DECODER, AUTOWIDE)
B-SS11065-WW-B-P1
IC1 TC7WH241F-TE12R BUFF
IC2 CXA2160-T6 COLOR DECODER
IC3 TC4W53FU (TE12R) 4V SWITCH
IC4 Z86229125SC-00TR MAIN V CHIP/CC
IC5 CXA1211M-T4 AMP
IC6 CXD2057M-T6 AUTO WIDE
IC7 BA05FP-E2 5V REG
CN102 11P
CN101 15P
CN103 9P
TO Q BOARD CN3006
TO SWITCHING REGULATOR CN1
FACTORY USE
Input : Y/C
700 mVp-p (H)
1.0 Vp-p (H)
1.2 Vp-p (H)
560 mVp-p (H)
680 mVp-p (H)
450 mVp-p (3.58 mHz)
Input : RGB
700 mVp-p (H)
1.0 Vp-p (H)
5.0 Vp-p (H)
5.0 Vp-p (V)
AN 5V-3
AN 6V
STBY 5V
DIG 3.3V-2
DIG 5V-2
DEC_ENA (P1, P5)
CC_VID/YUV (P5)
SDA_LS (P1, P2, P5)
SCL_LS (P1, P2, P5)
RGBYUV (P3)
PICAGC SW (P5)
V_SOG (P3)
COM.C (P2)
COM.Y (P2)
COM.IN (P2)
(P2) FSC
(P7) VID_H
(P7) VID_V
(P7) POWER
(P7) THERMO
(P5) TU_TX
(P5) TU_RX
(P5) TU_CLK
(P5) CS_TU
(P5) TU_RES
VIDEO (P3)

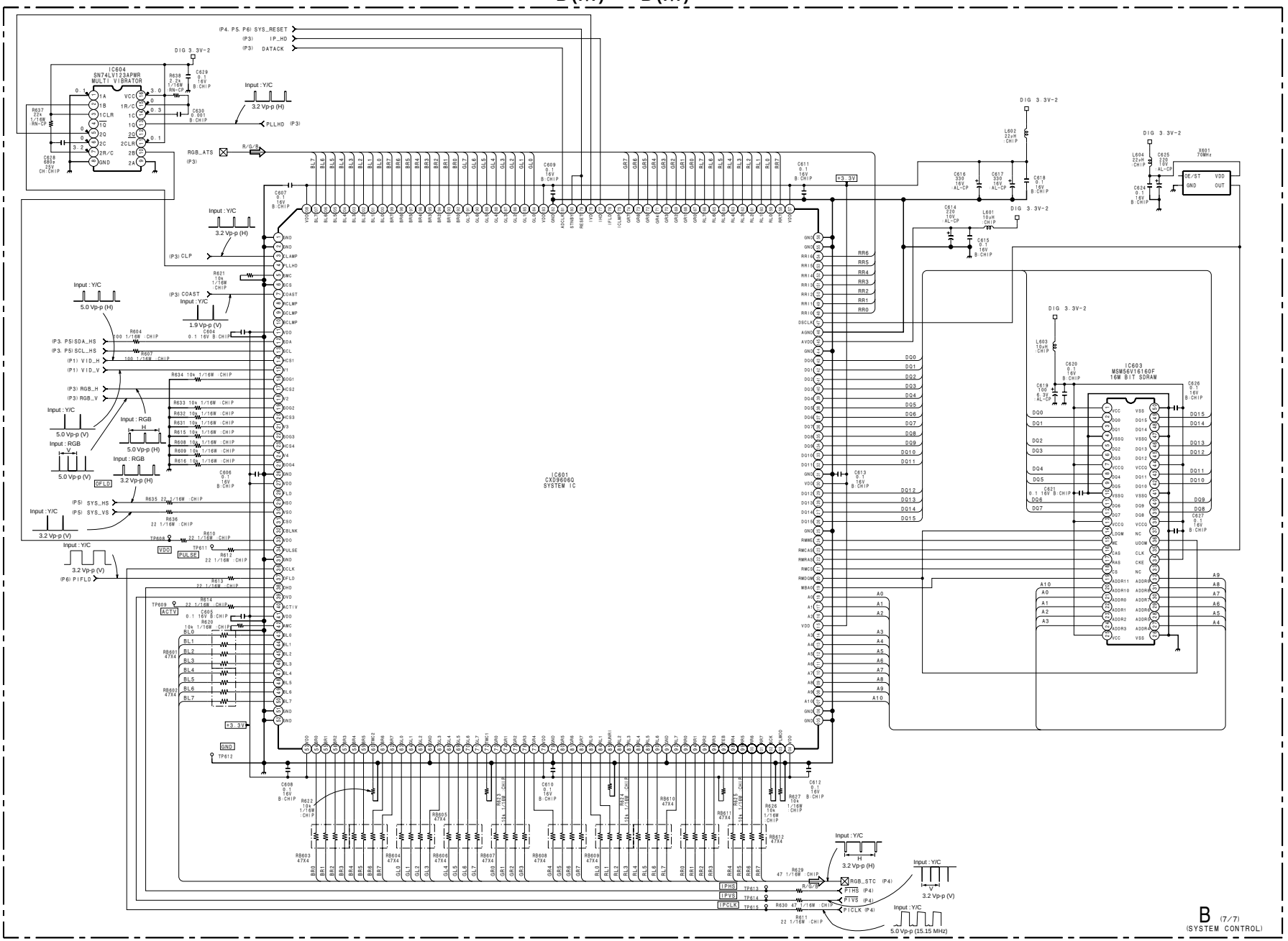

IC205 MC141627FT 3LINE COMB
IC206 μPD64083GF 3D COMB
IC201 SI-3025LSA V OUT
IC202 SI-3025LSA V OUT
IC204 TC7S04F INV
IC207 LM1881M SYNC SEP
IC208 TC4W53FU MULTIPLEXER
IC209 TC4W53FU MULTIPLEXER
Q201 2SA1774TL BUFF
Q203 2SA1774TL BUFF
Q204 2SC4617TL AMP
Q205 2SA1774TL BUFF
Q206 2SC4617TL BUFF
Q207 2SC4617TL BUFF
Q208 2SC4617TL AMP
Q209 2SA1774TL BUFF
Q210 2SC4617TL BUFF
Q211 2SA1774TL BUFF
Q212 2SC4617TL BUFF
Q213 2SA1774TL BUFF
Q214 DTC144EE SWITCH
Q215 2SC4617TL BUFF
Q216 2SC4617TL BUFF
Q217 2SA1774TL BUFF
Q218 2SA1774TL BUFF
(P5) VEH
VEH1
VEH2
VEH3
(P5) N/M
(P5) NT/PAL
(P1) FSC
(P1, P5) SCL_LS
(P1, P5) SDA_LS
COM. IN (P1)
COM. Y (P1)
COM. C (P1)
COMF_2D/3D (P5)
Input : Y/C
1.6 Vp-p (H)
800 mVp-p (H)
1.8 Vp-p (H)
2.5 Vp-p (3.58 MHz)
B (2/7)
(COMB FILTER)
B-SS11065-WW-B-P2


B (3/7)
(A/D CONN. PLL)
B-SS11065-WW-B-P3
IC403
CXA3516R
A/D CONV. PLL
IC404
M52947FP
H/V GEN.
IC405
SN74LV4053APWR
H/V SWITCH
IC406
TC7S08FU
COMPARATOR
CN401
10P
TO Q BOARD
CN3001
Q407-Q415 BUFF
Input : Y/C
2 Vp-p (H)
Input : RGB
3.2 Vp-p (V)
Input : RGB
950 mVp-p (H)
Input : Y/C
680 mVp-p (H)
Input : Y/C
600 mVp-p (H)
Input : RGB
680 mVp-p (H)
Input : RGB
1.3Vp-p (H)
Input : Y/C
600 mVp-p (H)
Input : Y/C
830 mVp-p (H)
Input : RGB
680 mVp-p (H)
Input : RGB
950 mVp-p (H)
Input : RGB
950 mVp-p (H)
Input : RGB
3.2 Vp-p (V)
Input : RGB
950 mVp-p (H)
Input : RGB
950 mVp-p (H)
Input : RGB
950 mVp-p (H

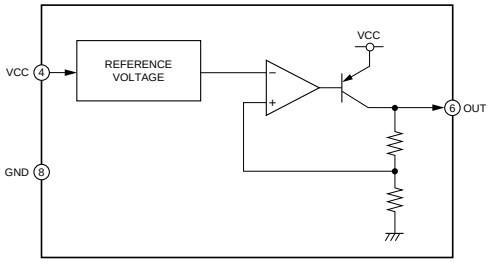

IC801
IP00C713
PICTURE PROCESSOR
IC802
K4S161622D
SDRAM
IC803
K4S161622D
SDRAM
IC804
K4S161622D
SDRAM
B (4/7)
(PICTURE PROCESSOR)
B-SS11065-WW-B-P4


CN1001 30P
STBY5V
GND
SIRCS
LED A
LED B
POWER SW
INPUT SEL
D3 DETECT
LPF
AUDIO MUTE
LINE MUTE
UART TX
UART RX
CPU RESET
FWE
FLASH MODE
FAN DRIVE
FAN FB
FAN DETECT
Q SENS
RGB3
CONT1
TO Q BOARD CN3002
SCL_LS (P1, P2, P5)
SDA_LS (P1, P2, P5)
CN1005 5P
TEMP1
TEMP2
TEMP3
TO H2 BOARD CN8601
CN1004 3P
KEY
D1007 MA3075WA PROTECT
CN1003 3P
CLOCK
IC1005 S-80828ANNP RESET VOLTAGE DETECTOR
IC1020 S-80842ANNP-ED6 RESET VOLTAGE DETECTOR
IC1007 M24C64-WMN (A) SERIAL I2C BUS EEPROM
Q1002 2SA1774TL REGULATOR
Q1001 2SC4617TL SWITCH
IC1006 TC7SBFU COMPARATOR
D1006 1SS387
D1002 1SS387 RECT
D1003 1SS387
BAT500 HOLDER BATTERY
X1001 32.768KHz
X1002 12.288MHz
IC1003 RS5C348A RTC
IC1017 BA033F-E2 3.3V REG
IC1004 HD64FZ633TE MAIN CPU
IC1010 TC74VHC541FT LINE DRIVER
IC1011 TC74VHCT541AFT LINE DRIVER
IC1009 TC7WX41FU BUFF
IC1018 TC7WH125FU BUS BUFF
IC1012 TC74VHCT14AFT INV
IC1016 TC7W14FU INV
IC1015 SN74CBT3306FWR BUS SWITCH
IC1019 SN74CBT3306FWR BUS SWITCH
Q1005 DTC144EE OUT ENABLE SWITCH
CN1002 8P
FOR TOOL
UR_TX
UR_RX
RES
FWE
F_MODE
B (5/7)
(MAIN CPU)
B-SS11065-WW-B-P5

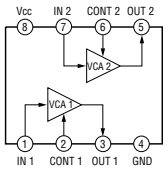

B (6/7)
B-SS11065-WW-B-P6


IC604
SN74LV123APWR
MULTI VIBRATOR
IC601
CXD9606Q
SYSTEM IC
IC603
MSM56V16160F
16M BIT SDRAM
DIG 3.3V-2
+3.3V
GND
Input : Y/C
3.2 Vp-p (H)
5.0 Vp-p (V)
1.9 Vp-p (V)
5.0 Vp-p (H)
3.2 Vp-p (V)
5.0 Vp-p (15.15 MHz)
Input : RGB
RGB_ATS
RGB_STC (P4)
PIHS (P4)
PIVS (P4)
PICLK (P4)
(P3) CLP
(P3) COAST
(P6) PIFLD
VDO
PULSE
ACTIV
DFLD
IPHS
IPVS
IPCLK
B (7/7)
(SYSTEM CONTROL)
B-SS11065-WW-B-P7

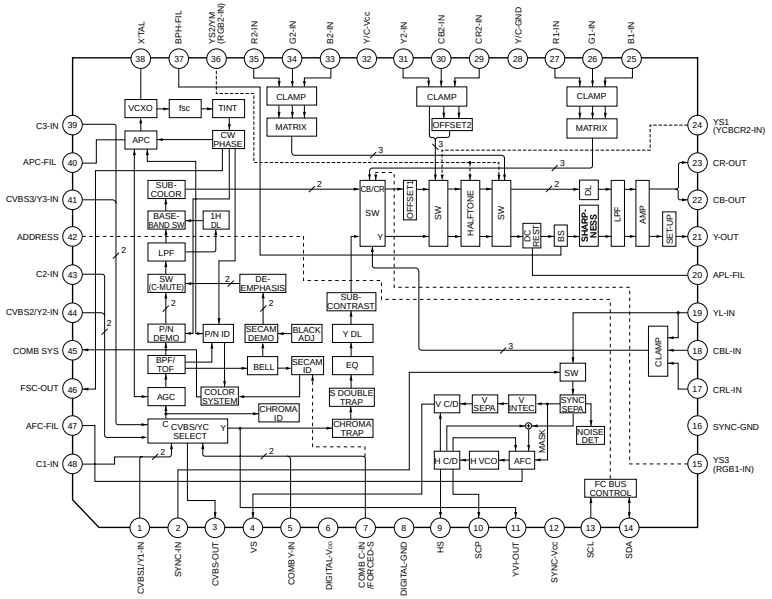
B (5/7) BA033F-E2 (IC1017)



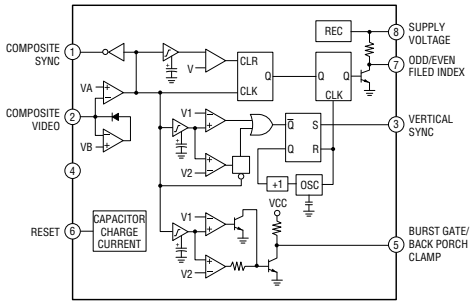
B (1/7) CXA1211M (IC5)



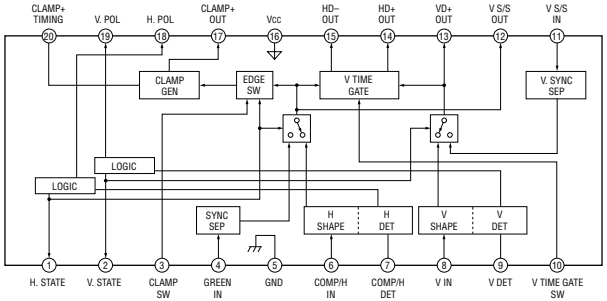
B (1/7) CXA2163Q-T6 (IC2)



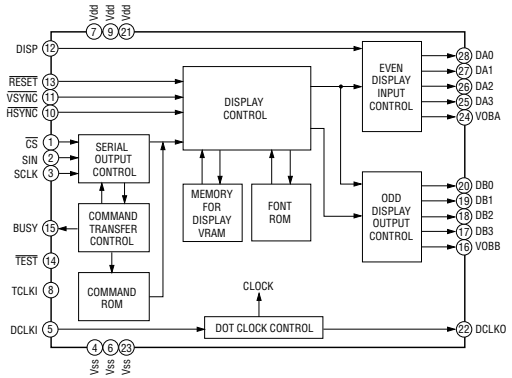
B (2/7) LM1881M (IC207)



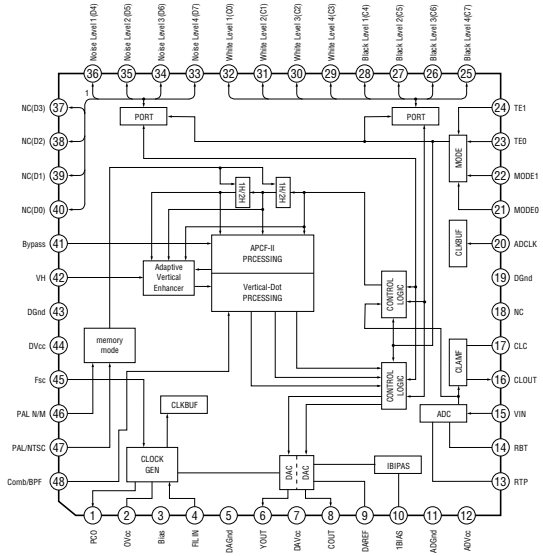
B (3/7) M52347 (IC404)



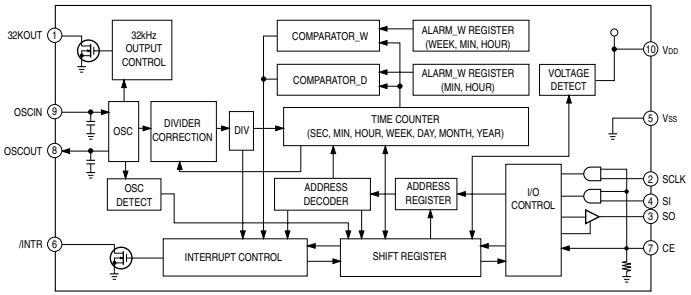
B (6/7) MB90098APF-A-130 (IC1205)



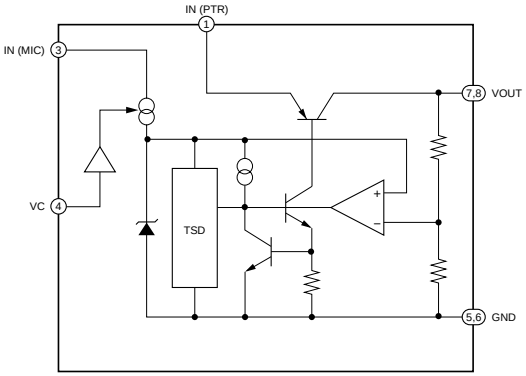
B (2/7) MC14162FT (IC205)



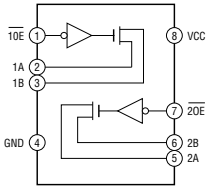
B (5/7) RS5C348A (IC1003)



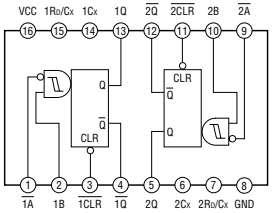
B (2/7, 6/7) SI-3025LSA (IC201, IC202, IC1202)



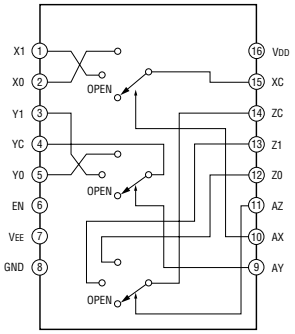
B (5/7) SN74CBTD3306 (IC1015, IC1019)



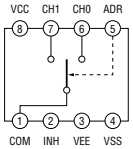
B (7/7) SN74LV123APSR (IC604)



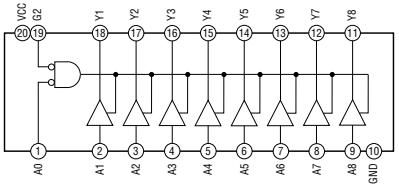
B (3/7) SN74LV4053APWR (IC405)



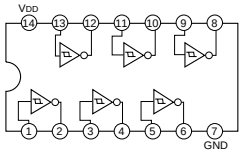
B (1/7, 2/7) TC4W53FU (IC3, IC208, IC209)



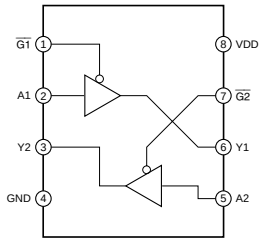
B (5/7) TC74VHC541F (IC1010, IC1011)



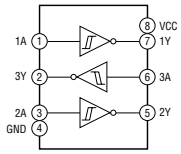
B (5/7) TC74VHCT14AFT (IC1012)



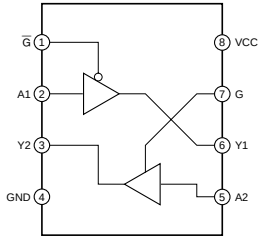
B (5/7) TC7WH125FU (IC1018)



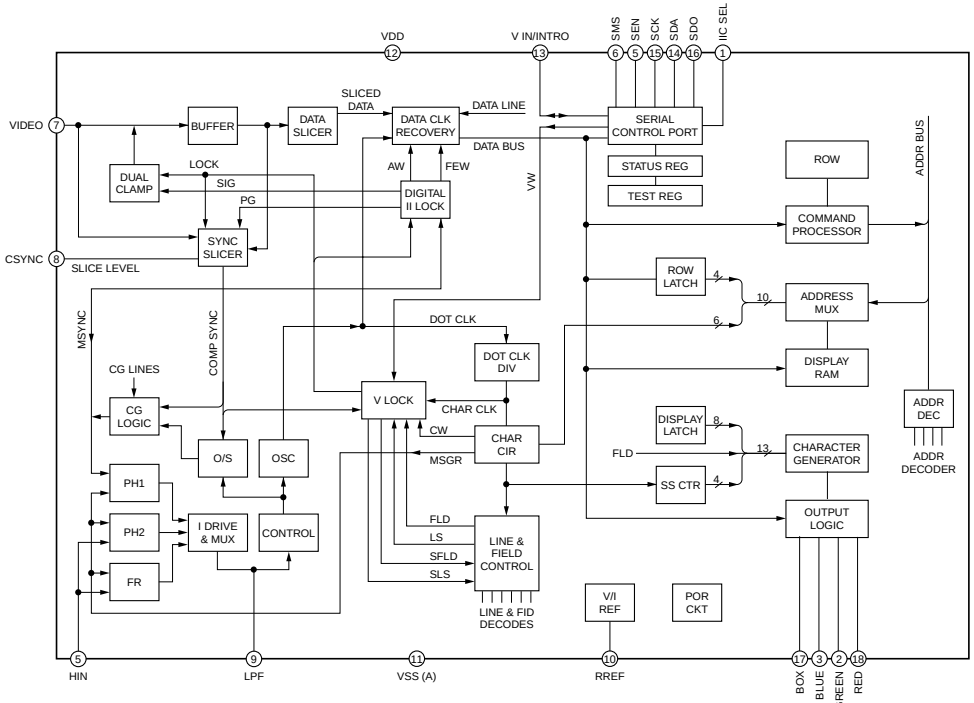
B (5/7) TC7W14FU (IC1016, IC1009)

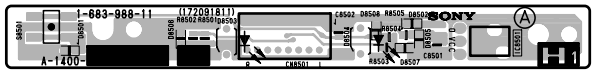


B (1/7, 5/7) TC7WH241FU (IC1)



B (1/7) Z8622912SSC-00TR (IC4)





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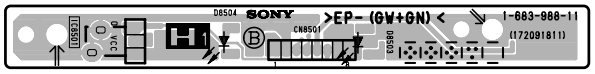

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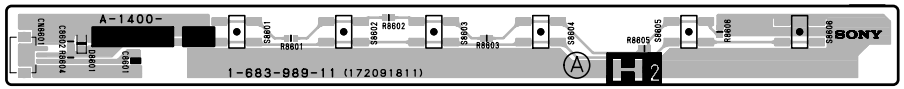

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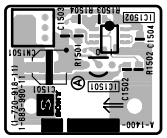
H2 -B SIDE-
SUFFIX: -11



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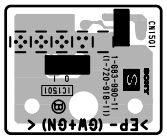

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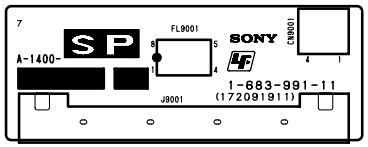

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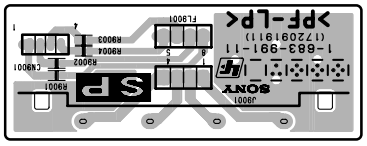

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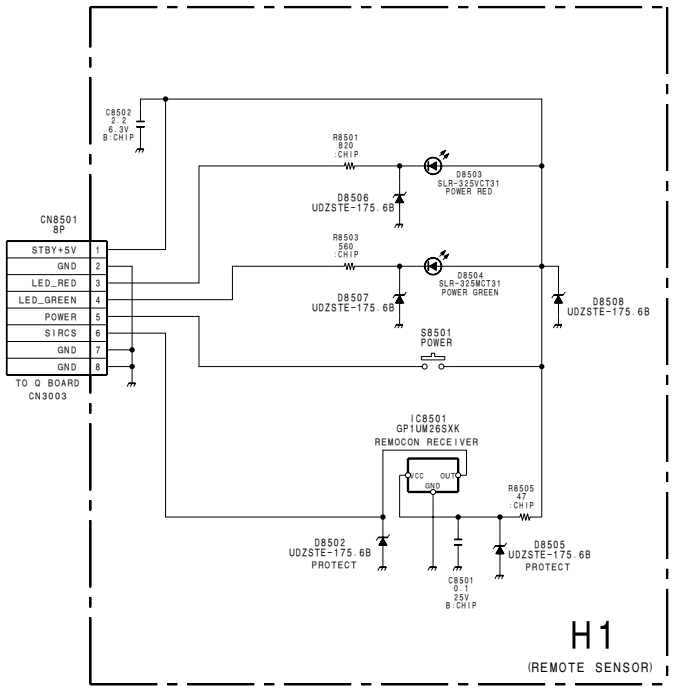

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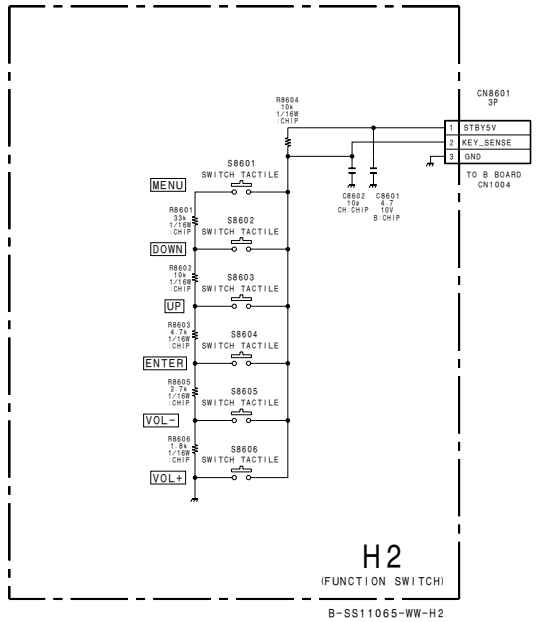

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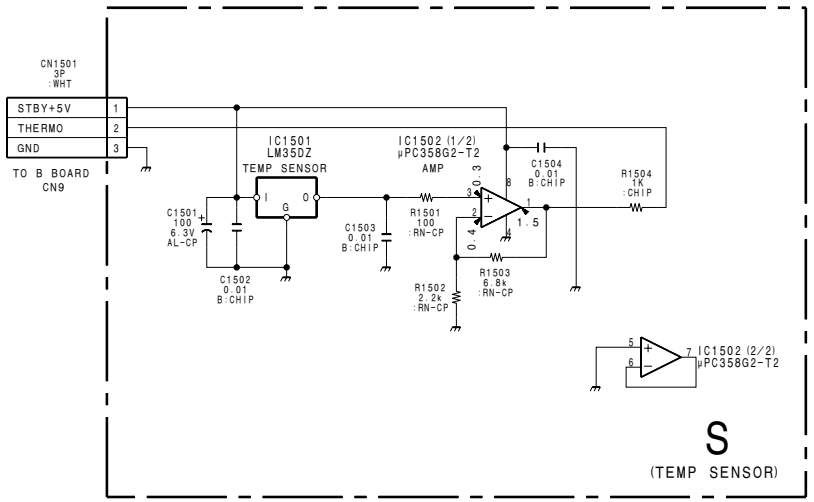

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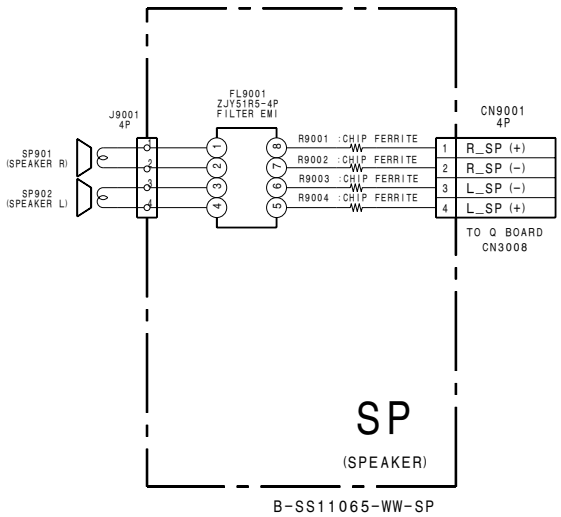

B-SS11065-WW-SP

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer :

Check the metal trim, “metallized” knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA. Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers’ instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The “limit” indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

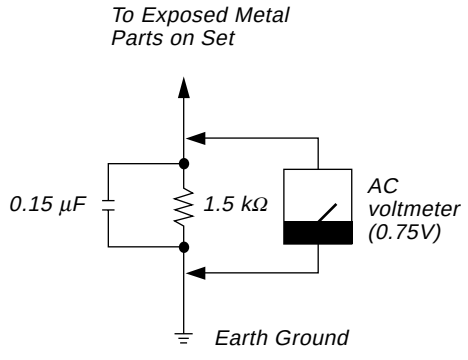

Fig A. Using an AC voltmeter to check AC leakage.

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